ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)

Affiliated to Visvesvaraya Technological University, Belagavi &

Approved by AICTE, New Delhi. Recognized by Government of Karnataka.

Accredited with A+ by NACC & NBA (ECE & CSE)

DEPARTMENT INTERNSHIP REPORTS -2023-24

ALVAS INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri) Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi.

Recognized by Government of Karnataka. A+, Accredited by NAAC

Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka Ph: 08258-262725; Mob:722262724,7026262725, Email: principalaiet08@gmail.com

Department of Artificial Intelligence and Machine Learning

Internship Report 2023-24 (4th year)

SI No	Company Name	No of Students	Domain /Area of Interest
1	Q Spiders, AIET	35	Python Full Stack
2	Q Spiders, AIET	04	Java Full Stack
3	Ybi Foundation	02	Data Science and Machine Learning
4	B School of AI	01	Data Science
5	IIIT, Allahabad	05	Machine Learning

No of companies associated:05
No of Students Attended Internship: 47

Internship Coordinator

HOD
Head of the Department
Dept. of Artificial Intelligence & Machine Learning
Alva's Institute of Engineering and Technology
Shobhavana Campus, Mijar
Moodubidire 574 225, D.K. Karnataka, India

effervescence
IIT Allahabad

CERTIFICATE
OF COMPLETION

Bhavana H

Is presented with this certificate to acknowledge their active participation in

Machine Learning

Course with **Engineer Core Summer Internship** in association with **Effervescence IIIT Allahabad**
in the month of **May** and **June 2023**

presented by

EngineerCore

Mr. Aashish Kapoor
Program
Coordinator

EN-SI-5857
Certificate Number

Mr. Gautam Kumar
Founder
Engineer Core

Summer
Internship
2023

21-01-2024

TO WHOMSOEVER IT MAY CONCERN

This is to certify that **Mr. Deltan Lobo** worked as an Data Science Intern with *B School of AI* from 11th October 2023 to 11th January 2024. His designation at the time of leaving was **Data Science Intern**.

During this period his conduct was good and he has no dues left in the company.

We wish him all growth and success in his future endeavors.

Thanks and Regards,

Satya Teja
Founder and CEO,
B School of AI

B-School of AI

Certificate of Completion

presented to

Prasanna Narayana P

has successfully completed one month Artificial Intelligence and Machine Learning
certificate program cum internship on Tuesday, Nov 28 2023 at Ybi Foundation

Ybi Foundation

Credential ID: 97YWDQD65R1A2

verify at https://www.ybifoundation.org/certificate-validation

www.ybifoundation.org (+91) 9667987711 support@ybifoundation.org

ALVA'S

CERTIFICATE

OF INTERNSHIP

CODECHEF HireMee amcat AERODYNAMIKS academy 10 SECONDS

Spiders

IIIT Allahabad

PROUDLY PRESENTED TO:

JESWIN (4AL20AI018)

For the successful completion of **45 days of Internship Program** on the topic *"Java/Python Full Stack Development, Data Structures & Algorithms, Artificial Intelligence & Machine Learning, Aptitude and Soft Skill Training"* conducted by Training & Assessment Partners and IIIT Allahabad during March/April and August 2023.

Head – Training and
Placements

Head of the
Department

Principal

Alva's Institute of Engineering & Technology, Moodbidri
(Accedited by NAAC with A+ and NBA New Delhi(CSE & ECE))
https://aiet.org.in

CIRCULAR

Sir/ Madam,

Subject: Clarification of 2021 scheme Industry/Research Internship (21INT82) regarding

Reference: VTU/BGM/BoS/598/2024-25/1813, Dated 23.07.2024

Based on the queries received, the following points are clarified for the (21INT82) Industry/Research Internship:

1. According to the teaching and examination scheme, the Technical Seminar (21SEM81) and Industry/Research Internship (21INT82) are scheduled for the eighth semester, while the Project Work (21PROJ76) and other theory courses (21xx71 to 21xx75X) are in the seventh semester.

2. Industry /Research Internship duration is **15 weeks** as per 170th EC proceedings

3. According to the scheme, the seventh and eighth semesters are **interchangeable** (Swappable). In the ODD semester, 50% of the final-year students can choose to take eighth-semester courses (technical seminar and internship), while the remaining students can take project work along with the theory courses of the seventh-semester. In the EVEN semester, the roles are reversed.

4. This swapping arrangement is designed to ensure that all students have the opportunity to participate in an internship. However, students who do not secure an internship can instead take Skill Enhancement Courses (SEC), which have credits totalling to those of the internship. The SECsare available @ online.vtu.ac.in.

5. Guidelines for Internship are mentioned in Annexure-IV (Activities under Internship) which is made available @ https://vtu.ac.in/pdf/regulations2021/anex4.pdf

Please note that the college must inform the Registrar (Evaluation) about the details of the students who are taking seventh-semester courses, those taking eighth-semester courses, and those opting for Skill Enhancement Courses (SEC) in the upcoming semester. These details must reach the Registrar (Evaluation) office within 10 days of the start of the odd semester.

P-32

All principals of affiliated or constituent engineering colleges and chairpersons of university departments are hereby informed to update these details for all concerned faculty and students..
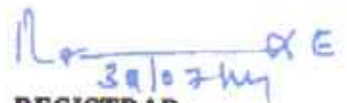
<div align="right">

Sd/-

REGISTRAR

</div>

To,

All the Principals of Engineering Colleges under the ambit of the University
All the Chairpersons/Program Coordinators of University Departments at Kalburgi, Mysuru,
Bengaluru, and Belagavi

Copy to

- The Hon'ble Vice-Chancellor through the secretary to VC for information
- The Registrar (Evaluation) for information and needful
- The Director, ITI,SMU,VTU Belagavi for information and needful also request to upload the circular onthe University website
- The Special Officer QPDS section of VTU Belagavi for information and needful
- Special Officer, COEMysuru for information and upload the circular onthe website online.vtu.ac.in
- Office copy

REGISTRAR

Prof. B. E. Rangaswamy, Ph.D
REGISTRAR

Phone: (0831) 249810
Fax: (0831) 240546

REF: VTU/BGM/BoS/598/2024-25/ 1813

DATE: 2.3 JUL 2024

CIRCULAR

Dear Sir/ Madam

Subject: 2021 scheme **Industry Internship /Research Internship (21INT82)**:
Regarding

Reference:

1. Joint Board of Studies recommendation vide proceeding no. 01(g) meeting dated: 21.06.2024
2. Proceeding number 2.2.1 of 178th EC meeting dated 17.07.2024
3. VTU/BGM/Aca/BoS/2023/257, Dated: 10.04.2023
4. Dean Faculty of Engineering approval dated: 22.07.2024
5. Hon'ble Vice-Chancellor's approval Dated: 23.07.2024

This refers to the subject mentioned earlier, based on the recommendation of the Joint Board of Studies and approval by the EC of VTU, Belagavi, the duration of the Industry Internship/Research Internship (21INT82) under the 2021 scheme has been fixed to 15 weeks. The institute has the flexibility to interchange(swap) the internship between 7th and 8th semesters based on the total number of students, and the availability of internships (the colleges shall assist in getting internships to the students). This 15-week semester duration will help students to complete their academic requirements on time. The students have to follow the rules and guidelines for the Industry Internship/Research Internship which is made available @ https://vtu.ac.in/pdf/regulations2021/anex4.pdf (Annexure-IV Activities Under Internship).

1. An industry or research internship should be conducted under the supervision of a faculty mentor or guide (refer to clause 1.3 of Annexure IV: Activities Under Internship, page 06). The mentor or guide is responsible for assisting students in securing appropriate industry internships and ensuring that they acquire the necessary skills to benefit their future careers.

2. Students undertaking internships must maintain a daily diary (internship report) as specified in Annexure IV (Activities under Internship).

3. The faculty mentor or guide must adhere to the guidelines provided for the conduct of CIE and SEE. Additionally, they are responsible for guiding the intern

to ensure the smooth execution of the internship and the preparation of the internship report (daily diary).

4. The mentor/guide/college shall submit all related documents to the University whenever requested.

5. For an industry internship, the intern must adhere to all the safety regulations of the internship provider. Any deviation from these safety norms and the resulting consequences are solely the responsibility of the intern (student).

6. With the consent of the internal guide and Principal of the Institution, students shall be allowed to carry out the internship within or outside the state or abroad, provided favorable facilities are available for the internship and the student remains regularly in contact with the internal guide.

7. University shall not bear any cost involved in carrying out the internship by students. However, students can receive any financial assistance extended by any organization.

8. As in the reference point number 03, students who are unable to secure an internship must take SKILL ENHANCEMENT COURSES, with credits totaling the same as those of the internship. Students are required to enroll in and complete the Skill Enhancement Courses available at (https://online.vtu.ac.in/category/courses/Skill-Enhancement-Course).

All the principals of autonomous/affiliated/constituent engineering colleges are hereby informed to bring the content of the circular to the notice of the Mentor/Guide for internship and the concerned students.

<div align="right">
Sd/-
Registrar
</div>

To,

1. Principals of all A Engineering Colleges of the University
2. The Chairpersons of the University departments of VTU at Kalaburgi, Mysuru, Bengaluru and Belagavi

Copy to

1. To the Hon'ble Vice-Chancellor through the secretary to VC, VTU Belagavi for information
2. The Registrar (Evaluation), VTU Belagavi for information and needful.
3. The Regional Directors (I/c) of all the regional offices of VTU for circulation.
4. The Director ITI SMU, VTU Belagavi for information and to make arrangements to upload the Academic Calendar on the VTU web portal.
5. The Director, Central Placement Cell, VTU Belagavi for information
6. Office copy

<div align="right">
23/07
REGISTRAR
</div>

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
B.E. in name of the Program
Scheme of Teaching and Examinations 2021
Outcome Based Education(OBE) and Choice Based Credit System (CBCS)
(Effective from the academic year 2021 - 22)

Swappable VII and VIII SEMESTER

VII SEMESTER

Sl. No	Course and Course Code	Course Title	Teaching Department (TD) and Question Paper Setting Board (PSB)	Theory Lecture (L)	Tutorial (T)	Practical/ Drawing (P)	Self-Study (S)	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	PCC 21XX71	Professional Core Course						3	50	50	100	3
2	PCC 21XX72	Professional Core Course						3	50	50	100	2
3	PEC 21XX73X	Professional elective Course-II						3	50	50	100	3
4	PEC 21XX74X	Professional elective Course-III						3	50	50	100	3
5	OEC 21XX75X	Open elective Course-II	Concerned Department					3	50	50	100	3
6	Project 21XXP76	Project work		Two contact hours /week for interaction between the faculty and students.				3	100	100	200	10
							Total		350	350	700	24

VIII SEMESTER

Sl. No	Course and Course Code		Course Title	Teaching Department	Theory Lecture (L)	Tutorial (T)	Practical/ Drawing (P)	Self-Study (S)	Duration in hours	CIE Marks	SEE Marks	Total Marks	Credits
1	Seminar 21XX81		Technical Seminar		One contact hour /week for interaction between the faculty and students.				--	100	--	100	01
2	INT 21INT82		Research Internship/ Industry Internship		Two contact hours /week for interaction between the faculty and students.				03 (Batch wise)	100	100	200	15
3	NCMC	21NS83	National Service Scheme (NSS)	NSS	Completed during the intervening period of III semester toVIII semester.				--	50	50	100	0
		21PE83	Physical Education (PE) (Sports and Athletics)	PE									
		21YO83	Yoga	Yoga									
								Total		250	150	400	16

Professional Elective - II			
21XX731		21XX734	
21XX732		21XX735	
21XX733			

Professional Elective - III			
21XX741		21XX744	
21XX742		21XX745	
21XX743			

21XX751	Open Electives - II offered by the Department to other Department students			
21XX752			21XX754	
21XX753			21XX755	

Note: PCC: Professional Core Course, PEC: Professional Elective Courses, OEC–Open Elective Course, AEC –Ability Enhancement Courses.
L –Lecture, T – Tutorial, P- Practical / Drawing, S – Seif Study Component, CIE: Continuous Internal Evaluation, SEE; Semester End Examination.

Note: VII and VIII semesters of IV year of the programme

(1) Institutions can swap VII and VIII Semester Scheme of Teaching and Examinations to accommodate research internship/ industry internship after the VI semester.

(2) Credits earned for the courses of VII and VIII Semester Scheme of Teaching and Examinations shall be counted against the corresponding semesters whether VII or VIII semester is completed during the beginning of IV year or later part of IV year of the program.

PROJECT WORK (21XXP75): The objective of the Project work is

(i) To encourage independent learning and the innovative attitude of the students.

(ii) To develop interactive attitude, communication skills, organization, time management, and presentation skills.

(iii) To impart flexibility and adaptability.

(iv) To inspire team working.

(v) To expand intellectual capacity, credibility, judgment and intuition.

(vi) To adhere to punctuality, setting and meeting deadlines.

(vii) To install responsibilities to oneself and others.

(viii)To train students to present the topic of project work in a seminar without any fear, face the audience confidently, enhance communication skills, involve in group discussion to present and exchange ideas.

CIE procedure for Project Work:

(1) Single discipline: The CIE marks shall be awarded by a committee consisting of the Head of the concerned Department and two senior faculty members of the Department, one of whom shall be the Guide.

The CIE marks awarded for the project work, shall be based on the evaluation of the project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

(2) Interdisciplinary: Continuous Internal Evaluation shall be group-wise at the college level with the participation of all guides of the college. Participation of external guide/s, if any, is desirable. The CIE marks awarded for the project work, shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25. The marks awarded for the project report shall be the same for all the batch mates.

SEE procedure for Project Work: SEE for project work will be conducted by the two examiners appointed by the University. The SEE marks awarded for the project work shall be based on the evaluation of project work Report, project presentation skill, and question and answer session in the ratio 50:25:25.

TECHNICAL SEMINAR (21XXS81): The objective of the seminar is to inculcate self-learning, present the seminar topic confidently, enhance communication skill, involve in group discussion for the exchange of ideas. Each student, under the guidance of a Faculty, shall choose, preferably, a recent topic of his/her interest relevant to the program of Specialization.

(i) Carry out a literature survey, and systematically organize the content. (ii) Prepare the report with your own sentences, avoiding a cut and paste act. (iii)Type the matter to acquaint with the use of Micro-soft equation and drawing tools or any such facilities. (iv) Present the seminar topic orally and/or through PowerPoint slides. (v) Answer the queries and involve in debate/discussion. (vi) Submit a typed report with a list of references.

The participants shall take part in the discussion to foster a friendly and stimulating environment in which the students are motivated to reach high standards and become self-confident.

Evaluation Procedure:

The CIE marks for the seminar shall be awarded (based on the relevance of the topic, presentation skill, participation in the question and answer session, and quality of report) by the committee constituted for the purpose by the Head of the Department. The committee shall consist of three teachers from the department with the senior-most acting as the Chairman.

Marks distribution for CIE of the course:

Seminar Report:50 marks

Presentation skill:25 marks

Question and Answer: 25 marks. ■No SEE component for Technical Seminar

Non–credit mandatory courses (NCMC):

National Service Scheme/Physical Education (Sport and Athletics)/ Yoga:

(1) Securing 40 % or more in CIE,35 % or more marks in SEE, and 40 % or more in the sum total of CIE + SEE leads to successful completion of the registered course.

(2) In case, students fail to secure 35 % marks in SEE, they have to appear for SEE during the subsequent examinations conducted by the University.

(3)In case, any student fails to register for NSS, PE or Yoga/fails to secure the minimum 40 % of the prescribed CIE marks, he/she shall be deemed to have not completed the requirements of the course. In such a case, the student has to fulfill the course requirements during subsequently to earn the qualifying CIE marks subject to the maximum program period.

(4) Successful completion of the course shall be indicated as satisfactory in the grade card. Non-completion of the course shall be indicated as Unsatisfactory.

(5)These courses shall not be considered for vertical progression as well as for the calculation of SGPA and CGPA, but completion of the courses shall be mandatory for the award of a degree.

Morae

27-Feb-2024

Dear J Karthikeyan,

We are delighted to offer you employment with Morae Services India Private Limited ("Company") as a(n) Analyst at the Company's office at Block C-4, ELM Building, SEZ, Manyata Embassy Business Park, Nagavara, Bengaluru, Karnataka 560045, India.

With effect from your date of joining, your employment will be governed by the terms and conditions referred to in Annexure I and prevailing policies and procedures of the Company.

Your annual salary will be INR 5,50,000 (Rupees Five Lakhs Fifty Thousand only), subject to deduction of applicable tax. The remuneration and perquisites are detailed in Annexure II.

This offer of employment will expire in one (1) business day from the date of this letter ("Offer Letter"). Any acceptance postmarked or otherwise communicated after this date will be considered invalid.

This offer is contingent upon the positive completion of the background verification report and is valid upon joining before or on the first day ("Commencement Date").

We ask that on your commencement date of 11-Mar-2024, you report to the Company's office mentioned above. In the event you are unable to do so and have not communicated to the Company before the Commencement Date, this offer shall be withdrawn.

The terms of this letter and Annexures are strictly confidential and should be kept between you and the Company.

Should you have any questions, please let us know. We look forward to welcoming you to the Morae team.

Sincerely,

For Morae Services India
Private Limited

Ann Marie Kartsounes
Chief People officer

India

Block C4 (ELM)
Ground Floor, Wing A
Embassy Manyata
Business Park Nagawara
Bangalore, Karnataka
560045, India

+91 80 3040 4400
info@moraeglobal.com

moraeglobal.com

Global Locations

Abu Dhabi	London
Bangalore	Maastricht
Chicago	New York
Frankfurt	Sydney
Hong Kong	Zurich
Houston	Washington DC

p-32

MORAE SERVICES INDIA PRIVATE LIMITED
(Wholly owned subsidiary of Morae Global Corporation)
CIN: U74999KA2020FTC132061

Morae

Date: May 07, 2024

Name: Karthikeyan J
Emp ID: 1114

Subject: Termination of Employment Notice

Dear Karthikeyan,

It is with regret that we inform you of the termination of your employment with Morae, effective today, May 07, 2024.

It has come to our attention that you were involved in violation during an examination conducted by one of our clients. Such actions not only violate the trust placed in us by our clients but also go against the core values and policies of our company. We take integrity and ethical conduct very seriously, and any breach of these principles cannot be tolerated.

We understand that this news may come as a shock, and we recognize the impact it may have on you and your livelihood. However, the decision to terminate your employment was made after careful consideration and in alignment with our company's policies.

Please be aware that your termination includes cessation of all employment benefits and access to company resources. We request that you return any company property, including badges, keys, laptops, and any other materials, to the HR department today.

If you have any questions or require further clarification regarding this matter, please do not hesitate to reach out to the HR department.

We wish you the best in your future endeavours.

For **Morae Services India Private Limited,**

Ann Marie Kartsounes
Chief People Officer

Karthikeyan J

Employee Name:
Signature & Date:
karthikeyan J
5/7/2024 | 3:45 AM

India

Block C4 (ELM)
Ground Floor, Wing A
Embassy Manyata
Business Park Nagawara
Bangalore, Karnataka
560045, India

+91 80 3040 4400
info@moraeglobal.com

moraeglobal.com

Global Locations
Abu Dhabi   London
Bangalore   Maastricht
Chicago   New York
Frankfurt   Sydney
Hong Kong   Zurich
Houston   Washington DC

MORAE SERVICES INDIA PRIVATE LIMITED
(Wholly owned subsidiary of Morae Global Corporation)
CIN: U74999KA2020FTC132061

KIZZDAY INVESTMENT GROUP ENTERPRISES

REF No: KZ03696/24

Date: 16-03-2024

☎ +91 9845358031

🌐 www.kizzday.com

✉ info@kizzday.com

MS. NANDINI MADNE K

D/o,Krishnamurthy,Hosahalli

post, Honnalli Taluk

Davangere District- 577224

TO WHOM IT MAY CONCERN

This letter is certify that MS. NANDINI MADNE K was employed at Kizzday Investment Group as a Android Front-end Developer from 17 Febuary 2024 to 16 to March 2024 Throughout their tenure, demonstrated exceptional skills and dedication in executing their responsibilites.

During their employment, played a pivotal role in our digital marketing initiatives, contributing significantly to the success of various projects.

Authorized signatory

Technical Head

P-3V

Corporate Office:
Pritech Park SEZ, Survey No.51-64/4
Marathalli Outer Ring Road, Bellandur
Village,Sarjapur
Bangalore - 560103
Karnataka, India
www.hp.com/in
CIN : U72900KA2015FTC079497

May 26, 2024

Registered Office:
HP PPS India Operations Private Limited
24 Salarpuria Arena
Hosur Main Road
Adugodi
Bangalore 560030
Karnataka, India

EMPLOYMENT CERTIFICATION

Dear Sir/Madam,

This is to confirm that the individual mentioned below is an active employee of HP PPS India Operations Private Limited

Personal information

Legal Name	Sahana G S
Name	Sahana G S
Employee ID	90049342

Employment information

Company Name	HP PPS India Operations Private Limited
Job Title	College Intern
Latest Hire Date	01-Feb-2024
Current Manager's Name	Sarin S B

For more information and/or clarification, please contact our Human Resources Department.

Sincerely,

Varun.R
Varun.r@hp.com
Human Resources

P-32

LETTER OF INTERNSHIP

To,   **Date**:- 28-11-2023

The Principal,

Alva's Institute of Engineering & Technology,

Moodbidri-574225.

Respected Sir / Madam,

Subject: Completion of Student Internship Program.

Government Tool Room and Training Centre is pleased to inform you that **Ms. Meghana V [4AL21CS070]** student of 4th Semester, Computer Science Engineering branch of your institution was admitted for internship with us and She was offered internship in the domain of **"PLC & IOT"** and the training program was scheduled from **30th October 2023 to 24th November 2023.**

Best Regards,

Co-ordinator   Nodal Officer

"ಕನ್ನಡ ಕಾಯಕ ವರ್ಷ 2020-21"

ಭಾರತ ಸರ್ಕಾರದಿಂದ ಮಾನ್ಯತೆ ಪಡೆದ ವೈಜ್ಞಾನಿಕ ಮತ್ತು ಕೈಗಾರಿಕಾ ಸಂಶೋಧನಾ ಸಂಸ್ಥೆ

A Scientific & Industrial Research Organisation Recognised by Govt. of India

Rajajinagar Industrial Estate, Bengaluru-560010

Tel No. 080-23152118, 23152119, 23152262, 23301683

Website : www.gttc.co.in   e-mail : md.gttc@gmail.com

P-32

Alva's Institute of Engineering & Technology

ALVA'S
Education Foundation®

Shobhavana Campus, Mijar, Moodbidri, D.K – 574225
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
(Accredited by NBA, New Delhi 2019-2025)
Academic Year 2023-24

INTERNSHIP PERMISSION LETTER

1	Name of the Student	Nisarga P R	
2	USN/Semester	4AL20CS086	8th
3	Faculty Incharge(AIET):	Senthil Kumar	
4	Company Name	Amiti Software technologies limited.	
5	Address of the Company	68, 4th Cross, Bannerghatta Rd Near Adigas / HSBC, Pandurunganagar Bangalore. 560076, Karnataka, India.	
6	Section Head Details	Name: Srikanth Talapadi	
		Designation: Director	
		Contact No. 9845206203	
		E-mail: sri@sutara.org	
7	Main Supervisor Details	Name: Anupama K	
		Designation: Trainee head	
		Contact No. 9845206203	
		E mail: sre@sutara.org	
8	Domain on Internship	Front End / Java Script technologies.	
9	Brief Theme on Internship	Software Development area (Front end / JS)	
10	Number of Days of Internship	2.5 months	
11	Dates of Internship Period	From :10/2/2024 To :20/4/2024	

Student

Internship 5/2/24

Placement Head

Head of the Department 5/2/24

2 Feb 2024

Nisarga P R
Alvas institute of engineering and technology

Subject: Internship

Dear Nisarga P R,

In reference to your mail, we would like to congratulate you on being selected for internship with Amiti Software Technologies Pvt Ltd based at Bangalore. You will be reporting to Mr. Srikanth Talapadi. Your training is scheduled to start effective 10th Feb, 2024 to 20th Apr, 2024. Your Training will be in Software Development department and area will be Front End / JavaScript Technologies.

As such, your internship will include training and focus primarily on learning and developing new skills and gaining a deeper understanding of concepts through hands-on application of the knowledge you learned in class. The project details and technical platform will be shared with you on or before commencement of training. During the internship you are not allowed to disclose any company information without prior permission from your mentor.

Again, congratulations and we look forward to working with you.

Yours faithfully,

Amiti Software Technologies Pvt. Ltd

Director

Srikanth Talapadi,
Director
Amiti Software Technologies Pvt Ltd.

Amiti Software Technologies Private Limited
68, 4th Cross, Bannerghatta Rd
Near Adigas/HSBC, Panduranganagar
Bangalore 560076 Karnataka India
www.amiti.in
info@amiti.in
+91 80 33153100

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY
Shobhavana Campus, Mijar, Moodbidri – 574 225
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Accredited by NBA New Delhi(2019-2025)

ALVA'S
Education Foundation®

Undertaking Letter for Internship

BY STUDENT

I .... Nisarga P. R .... S/o/D/o ...... Raju ....

Student of 8th Semester, CSE, hereby, declare that I am going to do the Internship in industry(Name & Address of the Company)

Amiti Software Technologies Private Limited , 68th 4th cross Bannerghatta Bangalore , as a part of the Curriculum/Placement from _10/2/24_ to _20/4/24_ .

I also assure that, I will update the handwritten daily log sheets on every day after the Internship duly signed by concerned supervisor at company. Incase, if I fail to do so, I am aware that, I am not eligible for I.A Marks of the Internship as well as Attendance during this VIII Semester.

I also assure that, I will complete all the I.A Test, Assignments, Internship Seminar, Seminar, ,KSCST Project Funding, Minimum 2 NPTEL Courses ,Project Exhibition and Project Work during Saturday & Sunday as per the given schedule.

I will cooperate with all my mates and will follow all the instructions given by the H.R Manager. In case of any act of indiscipline or misbehavior by me I shall owe responsibility and shall abide by the action taken by the institution.

I hereby declare and confirm that the institution shall not be held responsible in the event of any misfortune or accidents and/or personal injuries during internship.

I am the member of the AIET family and I will follow all the moral duties during the internship.

Date.25/01/24

Signature of Student

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

Shobhavana Campus, Mijar, Moodbidri – 574 225
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
Accredited by NBA New Delhi(2019-2025)

Letter of Undertaking Given By Parents for Internship

We, the undersigned parents/guardian shall ensure that our son/daughter _Nisarga P R_

USN _4AL20CS086_ shall abide by the college terms and conditions for internship.

We, the undersigned parents/guardian hereby declare and confirm that the institution shall not be held responsible in the event of any misfortune or accidents and/or personal injuries whether fatal or otherwise involving our son/daughter.

We, the undersigned parents/guardian shall indemnify and keep indemnified the institution against any liability, demand, claim, loss or lawsuit in respect of personal injuries to our son/daughter and/or to anybody and/or property damage arising out of or caused by our son/daughter's negligent act or omission during the course of industrial training.

We, the undersigned parents/guardian shall ensure that our son/daughter uphold the good name of the institution and abide by the code of conduct of the Institution and the industry and any other relevant rules and regulations at all times during the course of internship.

We, the undersigned parents/guardian further confirm that the Institution shall not be held responsible for our son/daughter misconduct or wrong doing at all times during the course of internship.

(RENUKA S)
Name & Sign. of Parent

Date: 25/01/24

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi – 590010

INTERNSHIP Report

on

"JAVA/PYTHON FULL STACK DEVELOPMENT, DATA STRUCTURES & ALGORITHMS, ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING, APTITUDE AND SOFT SKILL TRAINING"

Submitted in partial fulfillment of the requirements for the award of degree

BACHELOR OF ENGINEERING
IN
ELECTRONICS & COMMUNICATION ENGINEERING

Submitted By

RAMYA K   **4AL20EC041**

Under the supervision of
Mrs. Bhagyashree K
Assistant Professor
Department of E&C Engineering

ALVA'S
Education Foundation®
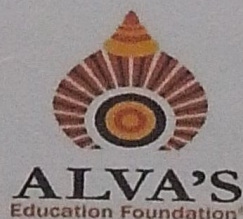
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

A+, Accredited by NAAC & NBA (ECE & CSE)

Shobhavana Campus, Mijar – 574225

2023 - 2024

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

A+, Accredited by NAAC & NBA (ECE & CSE)
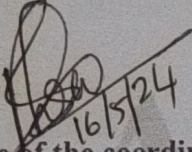
Shobhavana Campus, Mijar – 574225
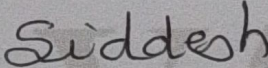
(Affiliated to VTU, BELAGAVI
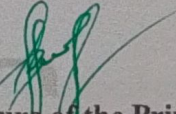
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CERTIFICATE

Certified that the Internship work on **"JAVA/PYTHON FULL STACK DEVELOPMENT, DATA STRUCTURES & ALGORITHMS, ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING, APTITUDE AND SOFT SKILL TRAINING"** carried out by **RAMYA K** bearing **4AL20EC041** in partial fulfillment for the award of **BACHELOR OF ENGINEERING in ELECTRONICS AND COMMUNICATION ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2023-24. The internship has been approved as it satisfies the academic requirements in respect of Internship prescribed for the Bachelor of Engineering Degree.

Signature of the coordinator

Mrs. Bhagyashree K

Signature of the HoD

Dr. Siddesh G K
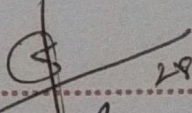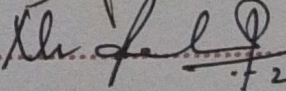
Signature of the Principal

Dr. Peter Fernandes

EXTERNAL VIVA

Name of the Examiners

Signature with Date

1. PAVITHRA S G   28/5/24

2. Dr. Pradeep N R   28/5/24

ACKNOWLEDGEMENT

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

LIST OF ABBREVIATIONS

BCPL	Basic Combined Programming Language
ANSI	American National Standards Institute
DSA	Data Structures and Algorithms
ADT	Abstract Data Type
LIFO	Last-in first-out
FIFO	First in first out
BST	Binary Search Tree
API	Application Programming Interface
GPL	General Public License
SUN	Standford University Network
J2SE	Java 2 Standard Edition
J2EE	Java 2 Enterprise Edition
J2ME	Java 2 Micro or Mobile Edition
JRE	Java Runtime error
JVM	Java virtual Machine
JDK	Java Development Kit
WAP	Wireless Access / Application protocol
OOPS	Object-oriented Programming
RDMS	Relational Database Management Systems
DDL	Data Control Language
DML	Data Manipulation Language
HTML	Hypertext Markup Language
CSS	Cascading Style Sheets

CHAPTER 1

INTRODUCTION

1.1 About the organization

QSpiders is a leading software testing and development training institute with branches across India. It was founded by Mr. Prakash Francis in 2007, with the aim of providing high-quality training to students and professionals in the software testing and development fields. QSpiders has trained more than 1,50,000 students so far and is recognized as one of the best training institutes in the country. QSpiders has a team of highly skilled trainers who are experts in their respective domains. The trainers are well-versed in the latest technologies and industry trends and provide practical, hands-on training to students. The institute offers courses in software testing, software development, and other related domains. The courses are designed to provide students with a strong foundation in the subject and to prepare them for real-world challenges. The institute has state-of-the-art infrastructure, with well-equipped labs, classrooms, and training facilities. The labs are equipped with the latest hardware and software, and provide students with a hands-on learning experience. The classrooms are spacious and well-lit, and provide a comfortable learning environment for students. The training facilities are designed to provide a conducive environment for learning, with all the necessary amenities.

QSpiders has tie-ups with leading companies in the software industry and provides placement assistance to students. The institute has a dedicated placement team that works with students to help them secure job placements. The placement team also conducts mock interviews, resume-building workshops, and other activities to prepare students for the job market. QSpiders has also been committed to providing placement assistance to their students. They have a dedicated placement cell that helps students with job placements after completing their training programs. The placement cell has tie-ups with leading IT companies in India, and they regularly conduct placement drives for their students.

In summary, QSpiders has come a long way since its inception in 2001. From humble beginnings, it has grown to become one of the most reputed software testing training institutes in India. With its commitment to quality training, state-of-the-art infrastructure, and dedicated placement cell, QSpiders is poised to continue its success in the years to come.

CHAPTER 2

BASICS OF C- PROGRAMMING

2.1 Brief history of C

C is a general-purpose programming language which features economy of expression, modern control flow and data structures, and a rich set of operators. C is not a "very high level" language, nor a "big" one, and is not specialized to any area of application. But its absence of restrictions and its generality make it more convenient and effective for many tasks than supposedly more powerful languages. The history of C programming language is quite interesting. C was originally designed for and implemented on the UNIX operating system by Dennis Ritchie. C is the result of a development process that started with an older language called (BCPL) Basic Combined Programming Language. BCPL was developed by Martin Richards, and it influenced a language called B, which was invented by Ken Thompson. B led to the development of C in the 1970s. For many years, the de facto standard for C was the version supplied with the UNIX operating system. In the summer of 1983, a committee was established to create an ANSI (American National Standards Institute) standard that would define the C language. The standardization process took six years (much longer than anyone reasonably expected).

2.2 Constants and Variables in C language

As the name suggests the name constants is given to such variables or values in C programming language which cannot be modified once they are defined. They are fixed values in a program. There can be any types of constants like integer, float, octal, hexadecimal, character constants etc. Every constant has some range. The integers that are too big to fit into an int will be taken as a long. Now there are various ranges that differ from unsigned to signed bits. Under the signed bit, the range of an int varies from -128 to +127 and under the unsigned bit, int varies from 0 to 255.

CHAPTER 3

DATA STRUCTURE & ALGORITHUM

3.1 INTRODUCTION

The DSA stands for "Data Structures and Algorithms."Data Structure is a way of collecting and organizing data in such a way that can perform operations on these data in an effective way. Data Structures is about rendering data elements in terms of some relationship, for better organization and storage. For example, have some data which has player's name "Virat" and age 26. Here "Virat" is of String data type and 26 are of integer data type. An algorithm is a finite set of instructions or logic, written in order, to accomplish a certain predefined task. Algorithm is not the complete code or program, it is just the core logic (solution) of a problem, which can be expressed either as an informal high-level description as pseudocode or using a flowchart. As data structure is a scheme for data organization so the functional definition of a data structure should be independent of its implementation. The functional definition of a data structure is known as ADT (Abstract Data Type) which is independent of implementation. The way in which the data is organized affects the performance of a program for different tasks. Computer programmers decide which data structures to use based on the nature of the data and the processes that need to be performed on that data. Some of the more commonly used data structures include lists, arrays, stacks, queues, heaps, trees, and graphs.

3.2 Classification of Data Structures

Data structures can be classified as

- Simple data structure

- Compound data structure

- Linear data structure

- Nonlinear data structure

CHAPTER 4

CORE JAVA

4.1 History of Java

James Gosling initiated Java language project in June 1991 for use in one of his many sets top box projects. The language, initially called 'Oak' after an oak tree that stood outside Gosling's office, also went by the name 'Green' and ended up later being renamed as Java, from a list of random words. Sun released the first public implementation as Java 1.0 in 1995. It promised Write Once, Run Anywhere, providing no-cost run-times on popular platforms. On 13 November, 2006, Sun released much of Java as free and open-source software under the terms of the GNU General Public License (GPL). On 8 May, 2007, Sun finished the process, making all of Java's core code free and opensource, aside from a small portion of code to which Sun did not hold the copyright.

4.2 INTRODUCTION

Java is one of the programming language or technology used for developing web applications. Java language developed at SUN Micro Systems in the year 1995 under the guidance of James Gosling and their team. Originally SUN Micro Systems is one of the Academic universities (Standford University Network) Whatever the software developed in the year 1990, SUN Micro Systems has released on the name of oak, which is original name of java (scientifically oak is one of the tree names). The OAK has taken 18 months to develop. The oak is unable to fulfill all requirements of the industry. So, James Gosling again reviews this oak and released with the name of java in the year 1995. Scientifically java is one of the coffee seed names. Java is a platform independent, more powerful, secure, high performance, multithreaded programming language. Here we discuss some points related to java.

Java divided into three categories; they are.

- J2SE (Java 2 Standard Edition): J2SE is used for developing client-side applications.
- J2EE (Java 2 Enterprise Edition): J2EE (Java 2 Enterprise Edition)

CHAPTER 5

HTML

5.1 INTRODUCTION

HTML stands for Hypertext Markup Language, and it is the most widely used language to write Web Pages.

- Hypertext refers to the way in which Web pages (HTML documents) are linked together. Thus, the link available on a webpage is called Hypertext.
- As its name suggests, HTML is a Markup Language which means you use HTML to simply "mark-up" a text document with tags that tell a Web browser how to structure it to display.

Originally, HTML was developed with the intent of defining the structure of documents like headings, paragraphs, lists, and so forth to facilitate the sharing of scientific information between researchers.

5.1.1 Basic HTML Document

```
<!DOCTYPE html>

<html>

<head>

<title>This is document title</title>

</head>

<body>

<h1>This is a heading</h1>

<p>Document content goes here.....</p>

</body>

</html>
```

Fig 5.1: Basic HTML template

Either you can use Try it option available at the top right corner of the code box to check the result of this HTML code, or let us save it in an HTML file test.htm using your favorite text

CHAPTER 6

CSS

6.1 INTRODUCTION

Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable. CSS handles the look and feel part of a web page. Using CSS, you can control the color of the text, the style of fonts, the spacing between paragraphs, how columns are sized and laid out, what background images or colors are used, as well as a variety of other effects. CSS is easy to learn and understand but it provides a powerful control over the presentation of an HTML document. Most commonly, CSS is combined with the markup languages HTML or XHTML.

6.2 Advantages of CSS

- CSS saves time - You can write CSS once and then reuse the same sheet in multiple HTML pages. You can define a style for each HTML element and apply it to as many web pages as you want.

- Pages load faster - If you are using CSS, you do not need to write HTML tag attributes every time. Just write one CSS rule of a tag and apply it to all the occurrences of that tag. So, less code means faster download times.

- Easy maintenance - To make a global change, simply change the style, and all the elements in all the web pages will be updated automatically.

- Superior styles to HTML - CSS has a much wider array of attributes than HTML, so you can give a far better look to your HTML page in comparison to HTML attributes.

- Multiple Device Compatibility - Style sheets allow content to be optimized for more than one type of device. By using the same HTML document, different versions of a website can be presented for handheld devices such as PDAs and cellphones or for printing.

- Global web standards – Now HTML attributes are being deprecated and it is being recommended to use CSS. So, it is a good idea to start using CSS in all the HTML pages to make them compatible with future browsers.

APPENDIX

ALVA'S

CERTIFICATE
OF INTERNSHIP

CODECHEF

amcat

10 SECONDS

HireMee

AERODYNAMIKS

Spiders

IIIT Allahabad

PROUDLY PRESENTED TO:

RAMYA . K

For the successful completion of **45 days** of Internship Program on the topic "Java/Python Full Stack Development, Data Structures & Algorithms, Artificial Intelligence & Machine Learning, Aptitude and Soft Skill Training" conducted by Training & Assessment Partners and IIIT Allahabad during March/April and August 2023.

Head - Training and
Placements

Siddesh
Head of the
Department

Principal

Alva's Institute of Engineering & Technology, Moodbidri
(Accredited by NAAC with A+ and NBA New Delhi)
https://aiet.org.in