

A R PROGRAMMING MICRO PROJECT REPORT ON EXPLORATORY DATA ANALYSIS OF DEMOGRAPHIC AND ECONOMIC TRENDS

IN

COMPUTER SCIENCE AND DESIGN

By

ABAYCHANDRASURYA J K	4AL22CG001
SHRUTHI N	4AL22CG054
PRIYANKA I SAKHARE	4AL22CG047
RASHMI M	4AL22CG049

Under the Guidance of

Dr. Shivaprasad B J

Associate Professor



DEPARTMENT OF COMPUTER SCIENCE & DESIGN

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY MOODBIDRI-574225, KARNATAKA

2023-2024



DEPARTMENT OF COMPUTER SCIENCE & DESIGN

CERTIFICATE

This is to certify that the Micro Project entitled "EXPLORATORY DATA ANALYSIS OF DEMOGRAPHIC AND ECONOMIC TRENDS" has been successfully completed by

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Engineering and Technology in DEPARTMENT OF COMPUTER SCIENCE & DESIGN of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2023-2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Micro project report has been approved as it satisfies the academic requirements in respect of Micro Project work prescribed for the Bachelor of Engineering Degree.

MI03124

Dr. Shivaprasad B J Micro Project Guide Mr. Jayanth Kumar A. Rathod

EXTERNAL VIVA

Name of the Examiners

Signature with Date

1.

2.

In this project, we leverage R programming to conduct exploratory data analysis and visualization on demographic and economic data. The dataset, sourced from an Excel file, contains information on Birthrate, Internet users, and Income Group for numerous countries. Our goal is to delve into this data and uncover insights regarding global demographic and economic trends. Through the use of histograms, we visually represent the distributions of Birthrate and Internet users across the countries in our dataset. Additionally, we employ a bar graph to elucidate the distribution of countries among various Income Groups. These visualizations provide a comprehensive overview of the demographic and economic landscape, offering valuable insights into regional disparities and developmental trends. By harnessing R's data visualization capabilities, we facilitate the interpretation of complex datasets, enabling stakeholders to make informed decisions and identify areas for further analysis or intervention. This project underscores the power of R in transforming raw data into actionable insights, thereby contributing to our understanding of global demographics and economics.



A R PROGRAMMING MICRO PROJECT REPORT ON BANK MANAGEMENT SYSTEM

COMPUTER SCIENCE AND DESIGN

By

ANVESH A SHETTY	4AL22CG004
APEKSHA K	4AL22CG005
HITHASHREE	4AL22CG023
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Dr. Shivaprasad B J Micro Project Guide Mr. Jayant Kumar A. Rathod HOD CSD

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A R PROGRAMMING MINI PROJECT REPORT ON EXPLORATOTY DATA ANALYSIS OF STUDENT SLEEP DATA

IN

COMPUTER SCIENCE & DESIGN ENGINEERING

By

DHANRAJ S H : 4AL22CG014
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DARSHAN R SHETTY : 4AL22CG015
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NIKITH NAIK : 4AL22CG035
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2023 - 2024



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This is to certify that the R programming Mini Project entitled "Exploratory Data Analysis of Students Sleep Data" has been successfully completed by

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AR PROGRAMMING MINI PROJECT REPORT ON Exploratory Data Analysis and Customer Segmentation in a Mall: A Comprehensive R Programming Approach

IN

COMPUTER SCIENCE AND DESIGN

By

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KATHANIKA MOGERAYA

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Mr . JayanthKumar A. Rathod

Mini Project Guide

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ABSTARCT

This mini project employs the R programming language to conduct an in-depth analysis of a mall dataset, focusing on exploratory data analysis (EDA) and customer segmentation. The project begins with the extraction and preprocessing of a large dataset containing information on mall customers. The exploratory data analysis encompasses a thorough examination of customer demographics, annual income, and spending scores, utilizing statistical measures and visualizations.

The data visualization section employs various techniques, such as bar plots, pie charts, histograms, and box plots, to illustrate patterns and trends in customer gender distribution, age distribution, and annual income. Additionally, scatter plots and line graphs depict the relationship between annual income and spending scores.

Furthermore, the project delves into customer segmentation using the K-Means clustering algorithm, exploring different cluster solutions and evaluating their effectiveness. The results provide valuable insights into distinct customer segments based on their annual income and spending behaviors.

The mini project concludes with a comparative analysis of clustering techniques, emphasizing the practical implications of the findings. This comprehensive exploration showcases the power of R programming for extracting meaningful insights from large datasets and informing strategic decision-making in a mall setting.



R PROGRAMMING MINI PROJECT REPORT ON EXPLORATORY DATA ANALYSIS OF SPEED AND STOPPING DISTANCE OF CARS

IN

COMPUTER SCIENCE AND DESIGN

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R MINI PROJECT REPORT ON TELECOM BILLING SYSTEM

IN

COMPUTER SCIENCE AND DESIGN ENGINEERING

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KARTIK M	4AL22CG025
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Dr. Shivaprasad D J Mini Project Guide Mr. Jayanti Kumar A. Rathod

The project describes the telecom billing system .The report will help you to know in deep the actual work that has been done as a team work. The telecom billing system system provides its users and researches to get online information about, the billing, statistical details and new tendencies. The trends of the billing act so that these will be pretty important to the users who access these via the Internet.

The main features of the telecome billing system includes information retrieval facilities for users from anywhere in the form of obtaining statistical information about billing and suitable for the corresponding totals. In addition this provides individual information about billing related to different billing systems.

The system allows the retrieving facilities but also the updating facilities to the authorized persons in the corresponding organization. The telecom billing system can be maintained by the four organizations all over the world. They will be able to use this via Internet. Admin will have their own username and passwords whereas users can access this with their own unique entity.



A R MINI PROJECT REPORT ON MOVIE RECOMMENDATION SYSTEM

IN

COMPUTER SCIENCE & DESIGN ENGINEERING

By

HANAMANT PUJARI	4AL22CG021
PREMKUMAR INGALE	4AL22CG045
PARESH TALEKAR	4AL22CG038
NISHCHAL	4AL22CG037
ALOK G	4AL22CG002

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Dr. SHIVPRASAD B J Mini Project Guide Mr. Jayanth Kumar A. Rathod HOD CSD

The project describes the Movie Recommendation System. The report will help you to know in deep the actual work that has been done as a team work. This mini-project presents the development of a movie recommendation system using the R programming language. With the proliferation of digital media platforms, the need for effective recommendation systems to assist users in discovering relevant content has become increasingly evident. The system's architecture encompasses data collection, processing, and recommendation generation stages. R's extensive libraries and packages, such as dplyr and recommender lab, are utilized for data manipulation and recommendation algorithm implementation. Various recommendation techniques including collaborative filtering, content-based filtering, and hybrid methods are explored and implemented to enhance the system's accuracy and user satisfaction. Through this project, insights into the challenges and opportunities in building recommendation systems using R are gained, paving the way for further exploration and innovation in the field.



A R MINI PROJECT REPORT ON MOVIE RECOMMENDATION SYSTEM

COMPUTER SCIENCE & DESIGN ENGINEERING

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A R PROGRAMMING REPORT ON

NUMBER SYSTEM CONVERSION

IN

COMPUTER SCIENCE & DESIGN

By

PAVAN RAJ 4AL22CG039

MANJUNATH 4AL22CG030

CHIDVILAS N 4AL22CG010

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EXTERNAL VIVA

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Signature with Date

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2

In this mini project, we delve into the world of number system conversions using the versatile capabilities of R programming language. The project aims to provide a comprehensive understanding of how to convert numbers between decimal, binary, octal, and hexadecimal representations efficiently.

The project begins by introducing the fundamental concepts of number systems and their importance in various computational tasks. It discusses the binary, octal, decimal, and hexadecimal systems, highlighting their respective bases and representations.

Subsequently, the project explores the implementation of number system conversions in R programming. It demonstrates the use of built-in functions and techniques to convert numbers from one system to another. Examples include converting decimal numbers to binary, octal, and hexadecimal formats, as well as vice versa.

Moreover, the project provides insights into the practical applications of number system conversions. It discusses scenarios where such conversions are essential, such as in computer programming, digital electronics, and cryptography.

Throughout the project, emphasis is placed on hands-on learning, with code snippets and demonstrations provided to facilitate understanding. Additionally, the project encourages experimentation and exploration, inviting learners to manipulate and analyze different number systems using R programming..



A R PROGRAMMING MINI PROJECT REPORT ON

Analyses The Relationships between Various CPU Specifications with Multiple Linear Regression Models using R PROGRAMMING

IN

COMPUTER SCIENCE AND DESIGN

By

POOJARI SURAKSHA	4AL22CG041
VAISHNAVI	4AL22CG062
POONAM NAIR	4AL22CG041
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DEPARTMENT OF COMPUTER SCIENCE & DESIGN MOODBIDRI-574225, KARNATAKA 2023-2024



DEPARTMENT OF COMPUTER SCIENCE & DESIGN

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This is to certify that the Mini Project entitled "Analyses The Relationships between Various CPU Specifications" has been successfully completed by

POOJARI SURAKSHA	4AL22CG040	
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A R PROGRAM MINI PROJECT REPORT ON IN UBER DATA ANALYSIS IN R COMPUTER SCIENCE & DESIGN ENGINEERING

By

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DEPARTMENT OF COMPUTER SCIENCE & DESIGN

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This is to certify that the DBMS Mini Project entitled "UBER DATA ANALYSIS IN R" has been successfully completed by

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UBER DATA ANALYSIS

COMPUTER SCIENCE AND DESIGN

By

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ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY MOODBIDRI-574225, KARNATAKA 2023-2024



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Mr. Jayantk Kumar A. Rathod HOD CSD

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This project presents a comprehensive analysis of Uber's transportation service through the exploration of publicly available trip data. The objective is to gain insights into user behavior, temporal patterns, and geographical distribution, ultimately providing a deeper understanding of the dynamics within the Uber ecosystem. The study encompasses data cleaning, exploratory data analysis, temporal and geospatial analysis, user behavior examination, and, optionally, predictive modeling. Key findings reveal peak hours, popular pick-up and drop-off locations, and correlations between factors such as income levels and Uber usage. The analysis not only enhances our understanding of the transportation patterns facilitated by Uber but also showcases the versatility of R programming for in-depth data exploration and visualization. The documentation includes code snippets, visualizations, and interpretations, providing a comprehensive resource for those interested in the intricacies of Uber's operational processes.



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IN

COMPUTER SCIENCE AND DESIGN

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DEPARTMENT OF COMPUTER SCIENCE & DESIGN

CERTIFICATE

This is to certify that the Mini Project entitled "EXPLORATORY DATA ANALYSIS OF SHIP ACCIDENTS" has been successfully completed by

THIRUMALA	4AL22CG061
SURAJ	4AL22CG058
GANESH	4AL22CG019
SAI SANKARSH N S	4AL22CG050
TEJESVIN R	4AL22CG059

Engineering and Technology in DEPARTMENT OF COMPUTER SCIENCE & DESIGN of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI during the year 2023 2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The Mini project report has been approved as it satisfies the academic requirements in respect of Mini Project work prescribed for the Bachelor of Engineering Degree.

Dr. Shivaprasad B J Mini Project Guide

Mr. Jayanth Lumar A. Rathod

EXTERNAL VIVA

Name of the Examiners

Signature with Date

1.

In this project, we leverage R programming to conduct exploratory data analysis and visualization on demographic and economic data. The dataset, sourced from an Excel file, contains information on Birthrate, Internet users, and Income Group for numerous countries. Our goal is to delve into this data and uncover insights regarding global demographic and economic trends. Through the use of histograms, we visually represent the distributions of Birthrate and Internet users across the countries in our dataset. Additionally, we employ a bar graph to elucidate the distribution of countries among various Income Groups. These visualizations provide a comprehensive overview of the demographic and economic landscape, offering valuable insights into regional disparities and developmental trends. By harnessing R's data visualization capabilities, we facilitate the interpretation of complex datasets, enabling stakeholders to make informed decisions and identify areas for further analysis or intervention. This project undersceres the power of R in transforming raw data into actionable insights, thereby contributing to our understanding of global demographics and economics.