

VISVESVARAYA TECHNOLOGICAL UNIVERSITY

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PROJECT REPORT

On

“CANDIDATE SELECTION USING RESUME SORTING AND FACIAL EMOTION RECOGNITION”

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In partial fulfillment of the requirements for the degree of

BACHELOR OF ENGINEERING

In

INFORMATION SCIENCE AND ENGINEERING

Under the Guidance of

Mr. NAGESH U B

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**DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
ALVAS INSTITUTE OF ENGINEERING AND TECHNOLOGY**

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ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY
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DEPARTMENT OF INFORMATION SCIENCE AND ENGINEERING
CERTIFICATE

*Certified that the project work entitled "CANDIDATE SELECTION USING RESUME
SORTING AND FACIAL EMOTION RECOGNITION" is a bonafide work carried out by*

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in partial fulfilment for the award of BACHELOR OF ENGINEERING in **INFORMATION SCIENCE AND ENGINEERING** of the **VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM** during the year 2019-2020. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Bachelor of Engineering Degree.

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ABSTRACT

After completing education, the next phase that comes in a person's life is job. However, there are lots of people who start working before completing their formal education. While looking for a job the most significant thing that speaks about a candidate is Curriculum Vitae (CV) or Resume. In this period of innovation, job searching has become progressively easier and simpler simultaneously.

There are a large number of applicants pouncing for a single position and hence it becomes extremely difficult for the employer to decide just dependent on their CV/Resume. To take care of this issue, there are organizations who give explicit configuration to their candidates with the goal that they can make this procedure somewhat simpler. The way toward choosing an applicant dependent on their CV/Resume has not been totally robotized. To solve this problem, an approach combined with Natural Language Processing (NLP) and Machine Learning (ML) seems like a feasible opportunity.

Research shows that, 90% of all CVs/ Resumes are checked for less than 2 minutes by the employers. This implies that, in most of the cases the employers only look at the bits of important parts or the points of interest in the CV/ Resumes and ignores the rest. The specific segmentation scheme of a general CV/ Resume makes it far easier to analyze and understand the necessary information. Therefore, the first objective was to segment the CV/ Resume into parts and then separate them in order to figure out the topics of each sentence through analyzing the keywords of each segment. After resume sorting of the curriculum vitae(cv) we go for the facial recognition of the candidates to analyze the situation of the candidates during interview by using machine learning algorithms. Facial expressions play a key job in analyzing and distinguishing emotions.