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## **PROJECT TOPIC: Resume Classification using ML**

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**Specialization: CSE**

**Project Group Members:**

1. Abhishek Suman(J-04/2115000037)
2. Govind(K-25/2115000416)
3. Dhruv Yadav(K-24/2115000369)

**Project Mentor:** Mr. Raushan Kumar Singh, Assistant Professor

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**Objective:** The main objective of this project is to help students identify whether their CV is relevant to a particular job description or not. Many students apply for jobs without knowing if their resume aligns with the required role, which reduces their chances of selection. This project aims to increase those chances by analyzing resumes and matching them with suitable job profiles.

**Tools required:**

➤ **Hardware Requirements:**

- Personal Computer / Laptop
- Minimum 8GB RAM
- Intel i5 Processor or Above
- Internet Connection
- Storage (Minimum 100GB HDD or SSD)
- Keyboard and Mouse

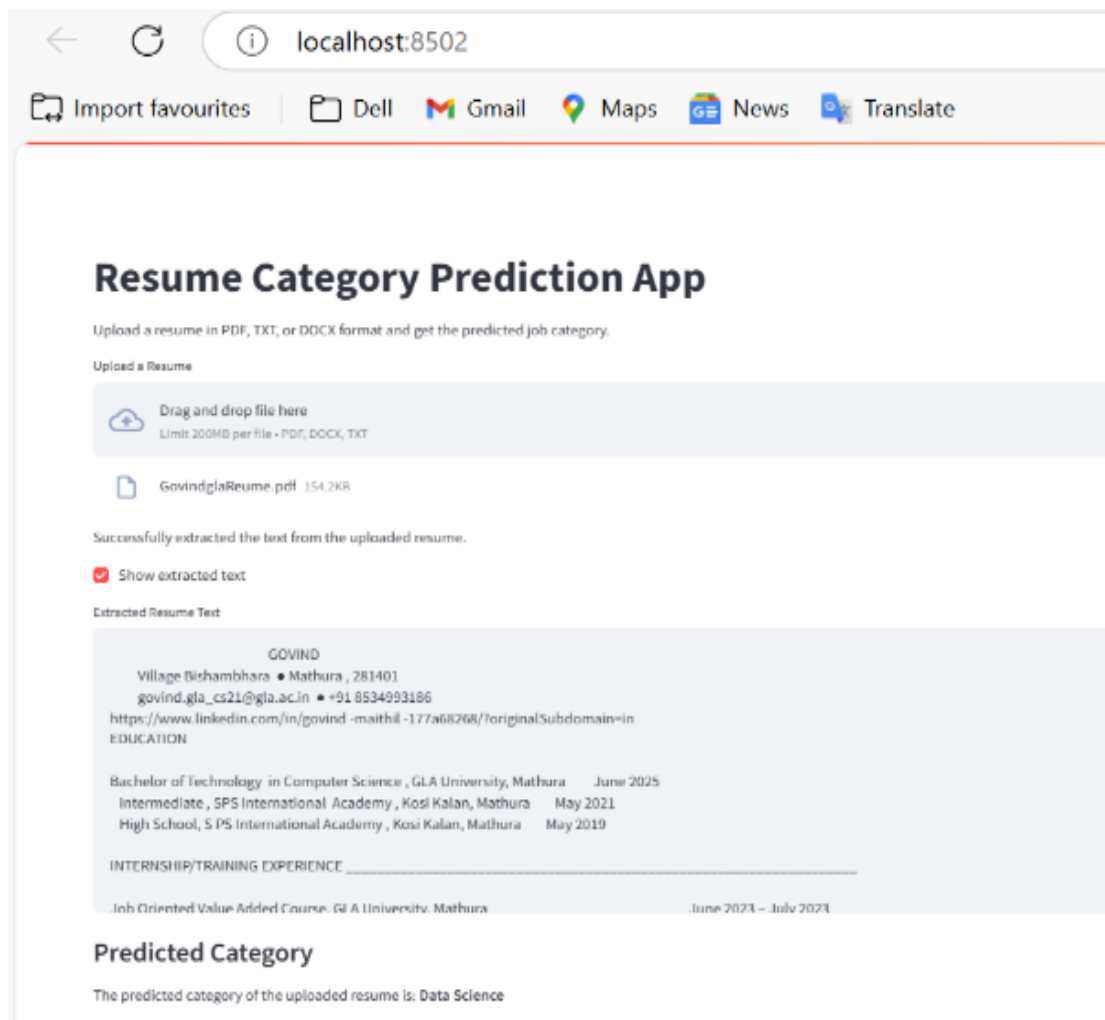
➤ **Software Requirements:**

- Operating System: Windows 10 / Linux / macOS
- Python 3.8+
- Scikit-learn
- Pandas
- NumPy
- Matplotlib
- Seaborn
- Jupyter Notebook / Google Colab
- docx2txt
- Git & GitHub

**Abstract:** In today's competitive job market, manually screening resumes is time-consuming and prone to human bias. This project, titled "Resume Classification using Natural Language Processing and Machine Learning Techniques," automates the screening process using AI. It uses NLP to extract features from resumes and job descriptions, then applies SVM, Random Forest, and Logistic Regression for classification.

The system categorizes resumes into fields like Data Science, Web Development, Software Engineering, and HR. With SVM achieving 90% accuracy, the tool provides relevance scores and improvement suggestions. It benefits both students and recruiters, improving efficiency, accuracy, and the overall recruitment process.

### Outcome:



The screenshot shows a web browser at localhost:8502 displaying the 'Resume Category Prediction App'. The app interface includes a header with navigation links (Import favourites, Dell, Gmail, Maps, News, Translate) and a main section titled 'Resume Category Prediction App'. Below the title, it instructs users to 'Upload a resume in PDF, TXT, or DOCX format and get the predicted job category.' There is an 'Upload a Resume' section with a 'Drag and drop file here' area (Limit 200MB per file - PDF, DOCX, TXT) and a file named 'GovindGlaResume.pdf' (154.2KB) is shown. A message states 'Successfully extracted the text from the uploaded resume.' and a checkbox 'Show extracted text' is checked. The 'Extracted Resume Text' section displays the following information:

**GOVIND**  
 Village Bishambhara • Mathura , 281401  
 govind.gla\_cs21@glu.ac.in • +91 8534993186  
<https://www.linkedin.com/in/govind-maithil-177a68268/?originalSubdomain=in>  
**EDUCATION**  
 Bachelor of Technology in Computer Science , GLA University, Mathura June 2025  
 Intermediate , SPS International Academy , Kosi Kalan, Mathura May 2021  
 High School , SPS International Academy , Kosi Kalan, Mathura May 2019  
**INTERNSHIP/TRAINING EXPERIENCE**  
 Job Oriented Value Added Course, GLA University, Mathura June 2023 - July 2023

**Predicted Category**  
 The predicted category of the uploaded resume is: **Data Science**