

# Project Synopsis: AI Resume Analyzer

## Title

AI Resume Analyzer

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## Abstract

The AI Resume Analyzer is a powerful web application built using Natural Language Processing (NLP) and Machine Learning techniques to analyze resumes and provide intelligent feedback. This tool automatically extracts information such as name, contact details, education, experience, and skills from resumes and offers personalized job role predictions, skill gap analysis, and course recommendations.

## Objective

- Automate resume parsing using NLP.
- Analyze candidate skills, experience, and strengths.
- Recommend job profiles and improvements.
- Provide insights for both candidates and recruiters.

## Technology Stack

Frontend: Streamlit

Backend: Python

Database: MySQL

Libraries: spaCy, pyresparser, pandas, nltk, pdfminer, plotly

## **Modules**

### **Project Synopsis: AI Resume Analyzer**

- Resume Upload & Parsing
- Skill Extraction and Role Prediction
- Course & Skill Recommendations
- Admin Dashboard with Visualization
- User Feedback and Analytics

## **Conclusion**

The AI Resume Analyzer bridges the gap between candidates and recruiters by offering an intelligent, automated way to evaluate resumes. The system is useful for students, professionals, and placement cells to assess and improve resume quality efficiently.

## **Submitted By**

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