AI-Based Resume Analyzer - Synopsis

1. Title

AI-Based Resume Analyzer

2. Objective

To develop an intelligent resume analyzer that extracts essential details from resumes, compares them with a job description, and provides feedback using AI/ML techniques.

3. Motivation

Manual resume screening is time-consuming and inconsistent. Automating this process helps streamline candidate shortlisting, especially in large-scale hiring processes.

4. Tools & Technologies Used

- Python
- Streamlit
- PyPDF2 / pdfminer.six
- pyresparser
- scikit-learn
- NLTK / spaCy
- OpenAI GPT (optional enhancement)
- Git/GitHub

5. Modules

1. Resume Upload and Parsing
2. Skill Extraction using NLP
3. Job Description Matcher
4. AI Feedback Generator
5. Admin Dashboard (Visualization with Plotly)

6. Key Features

- PDF Resume Parsing

- Skill and Education Extraction

- JD Matching Score

- AI-based Recommendations

- Admin Dashboard for stats and trends

7. Future Enhancements

- Multilingual Resume Support

- Real-time Interview Simulation

- Integration with LinkedIn/GitHub APIs

- Role-based Recommendation Engine

8. Team & GitHub Link

Developed by Harihara Ulaganathan

GitHub: https://github.com/ULAGANATHAN-HARIHARA/My-AI-Resume-Analyze