Project Report

Title: **Resume Details Fetcher**

1. Introduction

The recruitment process involves screening hundreds of resumes to extract essential details like name, contact information, education, and work experience. This manual process is time-consuming and prone to human error.

The Resume Details Fetcher is a Streamlit-based web application that automates the process of extracting structured details from resumes in PDF format.

2. Objective

- To reduce the manual effort required in resume screening.
- To quickly extract candidate information from resumes.
- To create a simple, user-friendly, and extensible tool for HR professionals and recruiters.

3. Tools & Technologies

- Programming Language: Python 3
- Libraries Used:
- Streamlit → Interactive web app interface
- PyMuPDF (fitz) → Extract text from PDF files
- Regex → Pattern matching for emails, phone numbers, etc.

4. System Design

Input: A PDF resume uploaded by the user.

Processing:

1. Extract text from the PDF using PyMuPDF.

2. Use regex to identify patterns like emails, phone numbers, and keywords.

3. Organize extracted details into categories.

Output: Display structured details such as Name, Email, Phone, Education, and Experience in the Streamlit app.

5. Features

Upload a PDF resume and extract text automatically.

Identify and display:

- Name
- Email
- Phone number
- Education
- Work Experience / Internships
- Simple, minimal, and user-friendly Streamlit interface.

6. Limitations

- Limited accuracy for resumes that use uncommon layouts or templates.
- Scanned/image-based resumes are not fully supported (OCR integration needed).
- Works best with text-based PDFs.

7. Future Scope

- Integrate OCR (Optical Character Recognition) for scanned/image resumes.
- Add database integration to store candidate information.
- Implement NLP/AI techniques for more intelligent resume parsing.
- Provide downloadable structured output (JSON, Excel, etc.).

8. Conclusion

The Resume Details Fetcher provides an efficient solution for quickly extracting key candidate information from resumes. While it currently works best with text-based PDFs, future enhancements like OCR and NLP will make it more robust and intelligent. This project can significantly assist recruiters and HR teams by reducing the time and effort spent on manual resume screening.