**AI-POWERED RESUME ANALYZER**

**Project Planning**

1. Features Overview

a. MVP

• User Authentication → Sign up, login, and manage profiles.

• Resume Upload → Users upload PDF/DOC files.

• AI Analysis → Extract text and analyze skills using AI.

• Keyword Matching → Compare with job descriptions.

• Dashboard → Show feedback and missing skills.

• Save & Track Changes → Users can re-upload and compare results.

b. Advanced Features

• Job Matching: Suggest job listings based on resume content.

• Resume Formatting Suggestions: AI improves layout and clarity.

• PDF Download: Generate an optimized PDF with suggestions.

2. Tech Stack & Architecture

a. Frontend (React)

• Vite + TailwindCSS (for UI)

• Axios (API communication)

• React Router (Navigation)

b. Backend (Django)

• Django REST Framework (API)

• PyPDF2 / PDFMiner (for PDF text extraction)

• Natural Language Toolkit (NLTK) / OpenAI API (for AI analysis)

• PostgreSQL (AWS RDS)

c. AWS Services

• Amazon RDS (Database)

• Amazon S3 (Store uploaded resumes)

• AWS Lambda (Optional AI processing)