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Introduction



AI-Powered Recruitment: Revolutionizing Talent Acquisition

The AI-Powered Resume Builder with Job Matching System is designed to revolutionize resume creation and job matching through advanced AI technologies. This system empowers users to generate professional resumes and intelligently matches them against job descriptions using cutting-edge similarity search algorithms.

Welcome to the future of recruitment. This presentation outlines an advanced AI-driven platform designed to streamline resume creation and intelligently match candidates with job opportunities, transforming how organizations find and hire top talent.

The Problem: Inefficient Recruitment Processes

Manual Resume Screening

Time-consuming and prone to human bias, leading to missed opportunities and extended hiring cycles.

Suboptimal Matching

Keyword-based systems often miss nuanced semantic relevance, resulting in poor fit and high turnover rates.

Lack of Transparency

Black-box AI solutions erode trust and make it difficult for recruiters to understand matching decisions, hindering adoption.

Proposed Solution: Al-Powered Resume Builder & Job Matching System

This sophisticated web application leverages advanced AI to revolutionize the creation of resumes and job matching. This system streamlines the entire process, from candidate application to intelligent recommendation.

Automated resume analysis and skill extraction. Intelligent job recommendation systems. Full traceability and explainable AI decisions.

OBJECTIVES

Resume Builder Develop a comprehensive resume builder that automatically generates professional resumes from structured user input.

Multi-Agent Architecture Architect a multi-agent system using Langchain for orchestrating resume analysis and job matching workflows.

Semantic Matching Implement advanced semantic similarity search using vector embeddings to match resumes with job postings.

Workflow Visualization Create a dynamic workflow visualization system that displays real-time agent interactions and decision paths.

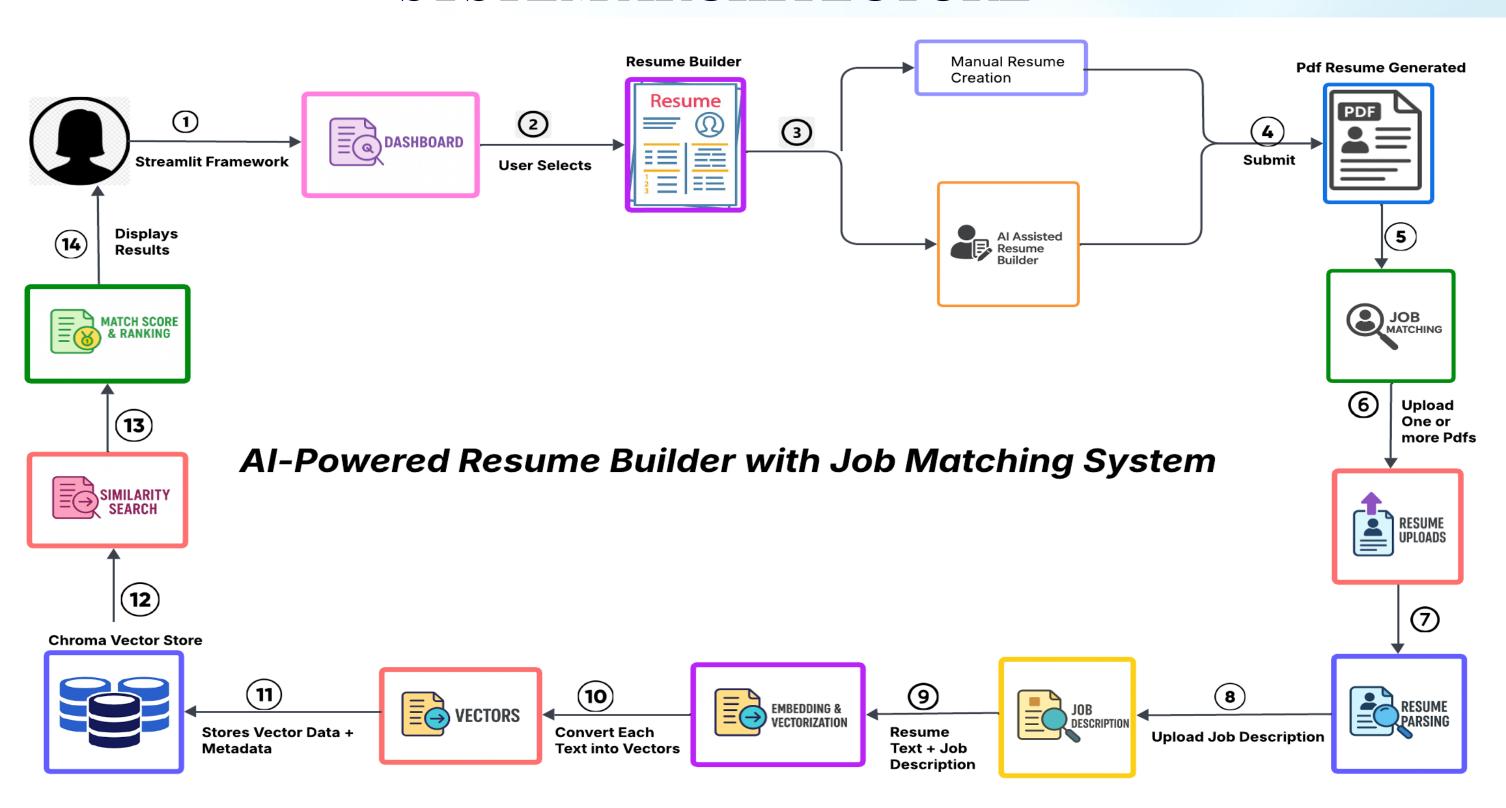
Resume Builder

Core Features

Multi-Agent Architecture

Workflow Visualization

SYSTEM ARCHITECTURE



Step-by-Step Process

 Upload a candidate's resume (PDF format).

Upload Resume

• Upload or paste the target job description (TXT format).

Add Job Description

Process

Results

Click

"Match Resume" to initiate the AI analysis pipeline. Instantly receive comprehensive results

- Detailed Output
- Interactive Agent Workflow Diagram: Complete process flow visualization.
- Agent Outputs: Detailed results from each specialized agent (parser, analyzer, matcher, scorer).
- Match Score: Quantified final match score with confidence intervals.
- Professional Analysis: Recruiter's reasoned verdict with specific recommendations.
- Improvement Suggestions: Skill gap analysis and resume enhancement recommendations.

TOOLS & TECHNOLOGIES

- 1. Programming Language & Framework
- **Python** → Core backend logic & data processing.
- Streamlit → Web interface, dashboards, PDF upload, and visualizations.
- 2. AI / NLP / LLM
- Google Gemini API (via LangChain) → Resume content enhancement, skill suggestions, and embeddings.
- LangChain → Orchestration of agents, chains, and LLM calls.
- 3. Data Processing & Libraries
- NumPy

 Numerical operations, similarity calculations, and scoring.
- **Pandas** → Data manipulation, analytics, and skill statistics.
- **pdfplumber** → Extracting text content from uploaded PDF resumes.
- Regex (re) \rightarrow Email, phone number, and skill pattern extraction.
- 4. Vector Database
- ChromaDB → Storing and querying embeddings of resumes & job descriptions for semantic matching.
- 6. Visualization & Analytics
- **Plotly** / **Graphviz** → Interactive charts, workflow diagrams, and performance analytics.

Advanced Features

Intelligent Scoring

• Build an intelligent scoring algorithm that provides detailed match analysis with recruiter-level insights.

Interactive Interface

• Design an interactive Streamlit interface supporting multiple input formats (PDF resumes, text job descriptions).

Content Enhancement

• Integrate LLM-powered content enhancement for resume optimization and skill gap identification.

Explainable AI

• Develop a transparent and explainable AI system that displays the complete data flow and reasoning processes.

Document Processing

• Implement robust document processing capabilities for various resume and job description formats.

Analytics Dashboard

• Create comprehensive analytics and reporting features for match results and recommendations.

MODULES

Resume Builder Module

Allows users to build resumes manually or generate content using Gemini AI, then export as PDF.

Resume Parsing Module

Extracts text from resumes, identifies personal details (name, email, phone) and skills.

Embedding & Vector Storage Module

Converts text into embeddings and stores them in ChromaDB for similarity search.

Job Description Parsing Module

Analyzes job postings to extract skills and requirements.

Matching & Scoring Module

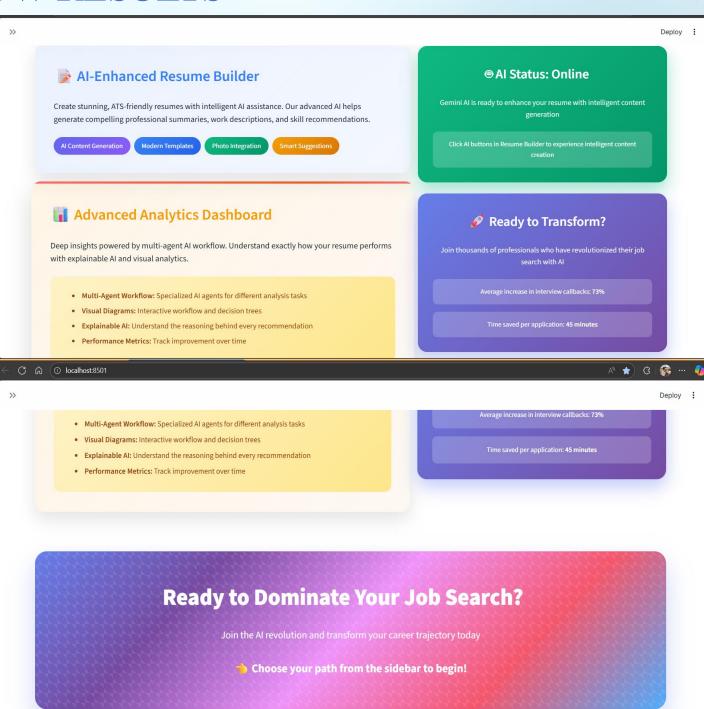
Compares resumes with job descriptions, calculates match score, highlights missing skills.

Visualization & Dashboard Module

Provides a Streamlit-based dashboard for interaction, score visualization, and candidate ranking.

APPLICATION WORKFLOW RESULTS



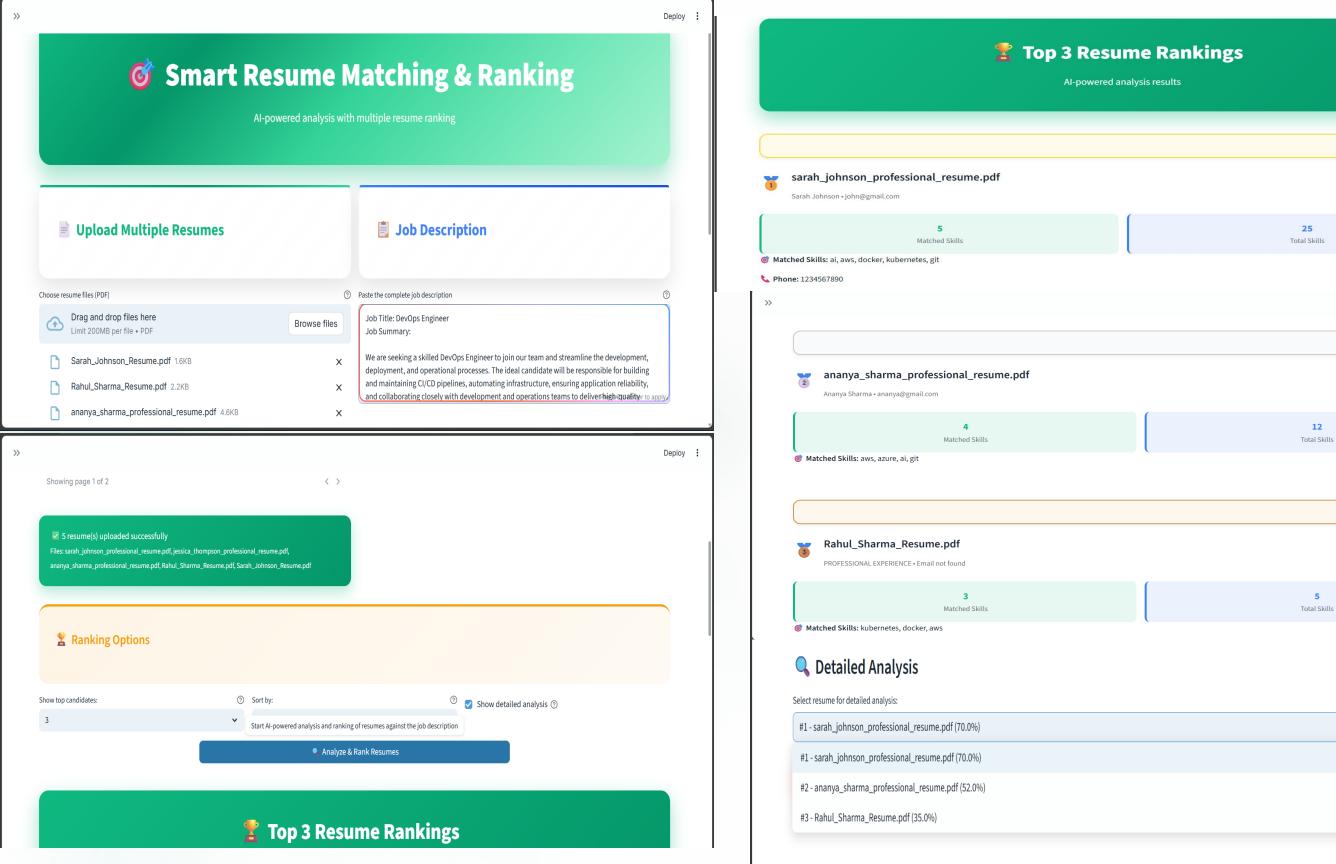


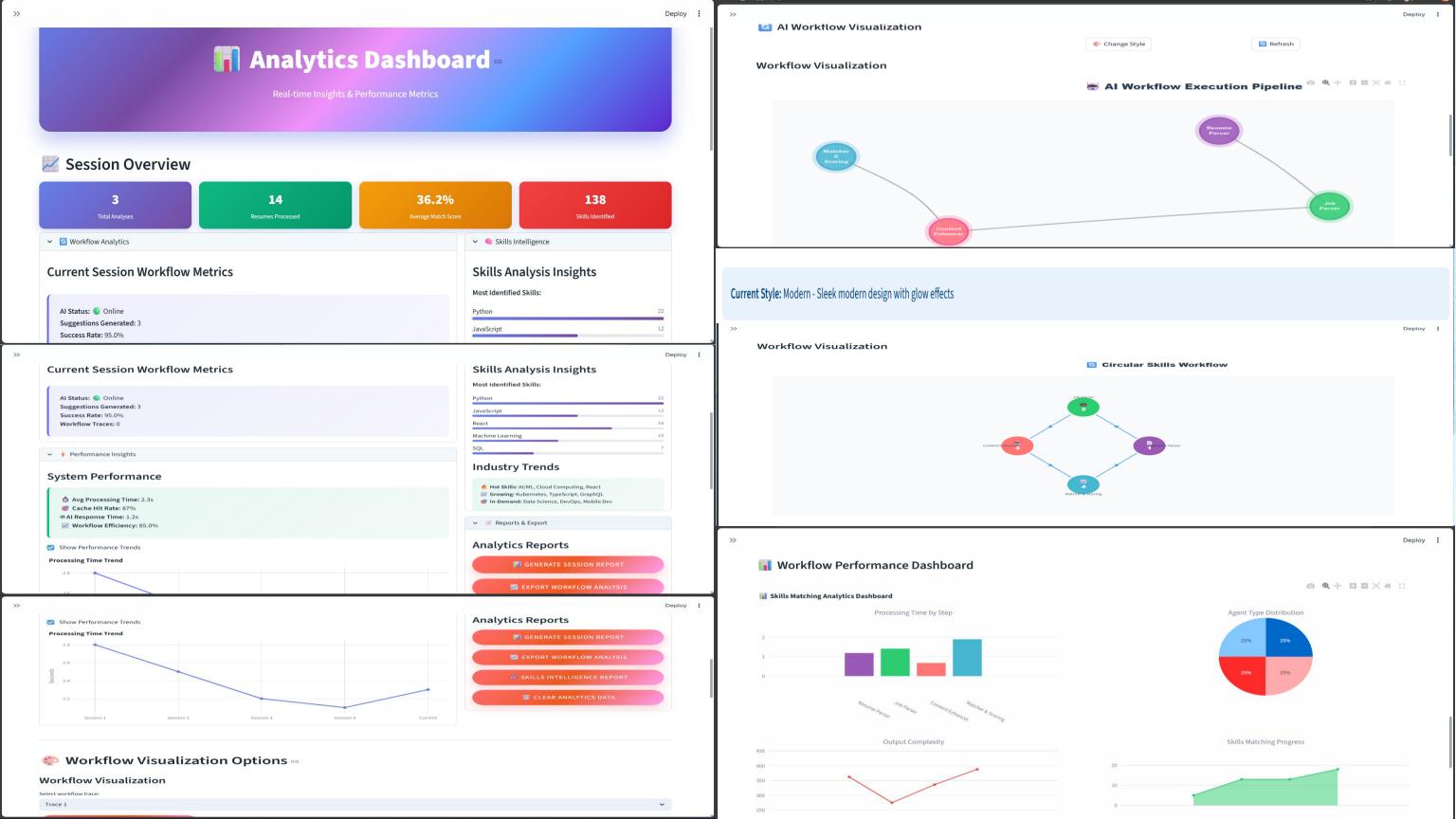


Create professional resumes with intelligent AI assistance

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Workflow Visualization







Current Style: Timeline - Linear timeline showing execution order

Available Visualization Styles

Skills Focused Modern Timeline Circular Hierarchical Sankey Enhanced Default

Visualization Options

- Show Animated Workflow ?
- Include Metrics Dashboard ②
- Enable Trace Export ②

Color Scheme
Colorful

Animation Speed

1.00

Success Metrics

Functionality

All core features working seamlessly.

Performance

Fast response times for matching operations.

Accuracy

High-quality semantic matching results.

User Experience

Intuitive interface with clear visual feedback.

Explainability

Transparent AI decision-making process.

Scalability

Efficient handling of multiple resumes and job descriptions.

Conclusion & Future Scope

The project "AI-Powered Resume Builder with Job Matching System" integrates resume generation, parsing, and intelligent job matching into a unified platform. By leveraging Google Gemini LLM via LangChain, ChromaDB vector storage, and custom Python modules, it enables AI-powered resume enhancement, skill extraction, and accurate job—candidate matching. With a Streamlit-based dashboard, it delivers an interactive, AI-driven solution for modern recruitment.

Future Scope

- Integration with Job Portals: Connect with LinkedIn, Indeed, Naukri, etc., for real-time job fetching & matching.
- AI Interview Assistant: Provide automated mock interviews, Q&A, and candidate feedback.

