Bharathkumar Parunandula

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Technical Skills

Languages & Libraries:

Python, NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn

Machine Learning & NLP:

Hugging Face Transformers, LangChain, Llama 3, SpaCy, Regex

Web & Deployment:

Streamlit, Flask, Git, GitHub

Data Handling:

CSV, JSON, API integration

Tools & Platforms:

Jupyter, Google Colab, Kaggle Notebooks, VS Code

Other:

Data Wrangling, Feature Engineering, Data Visualization, Prompt Engineering

Certifications

Python for Everybody - Coursera

- Python Data Structures
- Using Python to Access Web Data
- Using Databases with Python

https://www.coursera.org/account/ accomplishments/specialization/ LMST7ZT2F8LD

Professional Summary

AI/ML Engineer | NLP & Data Science Specialist

Results-driven engineer with expertise in building Al-powered solutions using natural language processing (NLP), machine learning, and large language models (LLMs). Proven ability to design and deploy scalable systems for data extraction, semantic search, and predictive analytics. Skilled in transforming unstructured data into actionable insights using modern tools like LangChain, Hugging Face Transformers, and vector databases. Passionate about developing end-to-end Al applications—from prototyping to deployment—with a strong focus on optimization and real-world impact.

Projects

RAG-POWERED CANDIDATE RETRIEVAL SYSTEM WITH CONTEXTUAL RERANKING

- Developed Al-powered resume search system using NLP and vector databases to match 1,000+ resumes with complex job requirements.
- Implemented FAISS vector storage with 'gte-small' embeddings for efficient cosine similarity search.
- Boosted precision by 40% using Flashrank reranking, surfacing optimal candidates through contextual reordering.
- ◆ Tech Stack: Python, Hugging Face Transformers, LangChain, FAISS, Flashrank

AI RESUME PARSER & STRUCTURED DATA EXTRACTION TOOL

Automated PDF-to-JSON Converter for ATS Integration

- Developed a Streamlit web app that parses resumes (PDFs) into structured JSON data using Groq's LLaMA 3-70B and LangChain.
- Key features:
 - PDF Text Extraction: Accurate data capture via PDFPlumber.
 - LLM-Powered Parsing: Normalized contact info, skills, and work history.
 - ATS-Optimized Output: JSON with standardized fields (e.g., skills: ["Python", "SQL"]).
 - Dynamic UI: Upload resumes, preview data, and download JSON.
- ◆ Tech stack: Python, Streamlit, Groq API, LangChain, PDFPlumber

RESUME SCORING ENGINE: MATCH CANDIDATES WITH JOB DESCRIPTIONS

- Parsed nested JSON resumes with prioritized key extraction & normalization.
- Matched job descriptions using MiniLM-based embeddings for skill/edu/exp scoring.
- ♦ Weighted scoring: Skills (40%), Experience (40%), Education (10%), Keywords (10%)
- ◆ Built Streamlit dashboard with model selection, batch processing, and visualizations.
- ◆ Tech stack: Python, Streamlit, Sentence-Transformers, Matplotlib

AI-POWERED RESUME FEEDBACK & SKILL GAP ANALYSIS SYSTEM

- Al tool using Groq's Llama 3-70B to analyze resume-JD alignment with detailed feedback.
- ◆ Implemented synonym matching, skill gap detection, and penalty scoring for core competencies.
- Outputs structured insights highlighting strengths and areas for growth.
- Designed for both recruiters and candidates for fast, objective analysis.
- ◆ Tech stack: Python, Streamlit, Groq API, Llama 3-70B

Education

Bachelor of Engineering - Aeronautical Engineering INSTITUTE OF AERONAUTICAL ENGINEERING, Hyderabad, India