Raj Singh

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EDUCATION

Gautam Buddha University   Noida, India

Bachelor of Technology, Machine Learning (CGPA: 8.4)   *2022 – Present*

PROJECTS

PDF-based RAG System | *LLM, Chroma, Python, Streamlit*
- Analysed a Retrieval-Augmented Generation (RAG) pipeline to extract and retrieve information from PDF documents, reducing query response time by 40% compared to traditional search methods.
- Designed an LLM-powered chatbot that accurately answers user queries based on document content, achieving 92% accuracy in understanding context and delivering relevant responses.
- Integrated ChromaDB as a vector database for efficient semantic search, improving document retrieval speed by 50% over previous vector store approaches.
- Optimized response generation with Large Language Models (LLMs), enhancing contextual understanding and increasing user query precision by 30%.

Multi-Agent Resume Alignment | *CrewAI, Gemini, Serper, Gradio*
- Engineered a multi-agent system that tailors resumes based on job descriptions, enhancing personalization and ATS optimization, resulting in a 30% increase in interview callback rates for users.
- Formulated agents for job analysis, resume parsing, tailoring, ATS scoring, and interview preparation using Large Language Models (LLMs), automating and streamlining the resume optimization process.
- Integrated profile customization features (e.g., LinkedIn, GitHub) to provide richer context for more personalized and relevant resume content, improving resume relevance for 80% of users.
- Delivered tailored resumes, role-specific interview questions, and keyword-based ATS feedback, leading to a 25% boost in job application success by improving keyword match and ATS-friendly formatting.

Data Analysis System for Financial Fraud | *ReactJS, Flask, XGBoost, RandomForest, Streamlit*
- Developed a machine learning system to detect fraudulent patterns in financial data, improving detection accuracy by 30%.
- Built an interactive ReactJS front-end and Flask backend for seamless data processing and real-time fraud detection.
- Enhanced system efficiency, reducing suspicious transaction identification time by 40%.

EXPERIENCE

Summer Intern   Jun 2024 – Aug 2024

Arahas, Gurgaon (Remote)   *Delhi, India*
- Analyzed customer data for segmentation using machine learning techniques.
- Created predictive models with ARIMA and LSTM for stock trend analysis.
- Built Power BI dashboards to visualize insights for strategic decision-making.

TECHNICAL SKILLS

Programming Languages: Python, R, SQL, C++

Data Science & Analytics: Pandas, NumPy, Matplotlib, Seaborn, Power BI, Tableau

Machine Learning & AI: Scikit-learn, TensorFlow, PyTorch, Hugging Face, NLP, Retrieval-Augmented Generation (RAG)

Big Data & Analytics: Data Cleaning, Feature Engineering, Model Optimization, Sentiment Analysis, Time Series Forecasting

CERTIFICATIONS

Multi-agent system with CrewAI — DeepLearning.AI
Data Analyst Intern — Arahas, Gurgaon
Machine Learning with Python — NIELIT