

RATNAKSH TYAGI

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Aspiring AI/ML Intern skilled in Python, LLMs, prompt engineering, and data analysis, with experience in building intelligent assistants and automating business insights.

Technical Skills: Python, LLMs, prompt engineering, data analysis, and AI/ML development.

- Large Language Models • NLP • Data Visualization • Scikit-learn
- Prompt Engineering • Python • Data Cleaning • GCP
- SQL • MySQL • Pandas
- DAX • GenAI • Numpy

WORK EXPERIENCE

AI Engineer | Xapotech Systems Pvt Ltd, Noida 14/11/2023 - Present

- Analyzed complex datasets to identify key trends, patterns, and actionable insights, contributing to data-driven decision-making for various client projects.
- Developed and deployed AI-driven anomaly detection systems to monitor business KPIs in real-time, identifying and flagging critical metric deviations using statistical and machine learning techniques.
- Supported initiatives focused on improving operational efficiency and streamlining business processes through data analysis.
- Built an AI agent that generates pre-sales call reports by analyzing company websites and LinkedIn profiles using Relevant AI, significantly reducing research time for sales teams.
- Engineered prompts for generative AI models to facilitate the creation of targeted reports and context-aware responses, improving the relevance and speed of information retrieval.
- Prepared comprehensive reports and presentations, effectively communicating key findings and the impact of AI-driven solutions to stakeholders.

PROJECTS

Instant Doc Explainer | Python | Streamlit | AI/ML | LangChain | FAISS | Link

- Developed a conversational AI application for instant document analysis, allowing users to upload and query multiple file types (PDF, DOCX, TXT) to extract key information and insights.
- Engineered a Retrieval-Augmented Generation (RAG) pipeline using LangChain, Groq's model, and FAISS vector search to provide intelligent and accurate Q&A on unstructured document content.
- Built an intuitive and responsive user interface with Streamlit, managing application state and providing a seamless, real-time experience for interacting with the document-based knowledge base.

Business Kpi Bot Alert | Python | Pandas | Streamlit | Groq API | Link

- Built an AI-powered anomaly detection system to monitor business KPIs in real-time, leveraging statistical models and ML techniques to identify and flag metric deviations.

Smart Calendar Scheduling Agent | AI/ML | Python | NLP | Flask | LLM | Link

- Developed and deployed an AI-powered calendar agent capable of managing Google Calendar events through natural language conversations, significantly streamlining meeting coordination.
- Engineered a robust Python/Flask backend integrating with the Groq API for advanced Natural Language Understanding (NLU) and intent recognition, enabling intelligent parsing of complex scheduling requests.
- Designed and built an intuitive, responsive chat interface using HTML, CSS, and JavaScript, providing users with a conversational experience for scheduling and managing their time.

RT Sales Copilot Agent | Automation | Relevance AI | Prompt Engineering | Link

- Built an AI agent that generates pre-sales call reports by analyzing company websites and LinkedIn profiles using Relevant AI, significantly reducing research time for sales teams.
- Automated the extraction of business context and prospect insights through a simple UI requiring only the company and LinkedIn URLs, enabling fast, personalized sales preparation.

EDUCATION

Bachelor of Technology in Computer Science 07/2019 – 06/2023

Jaypee Institute of Information & Technology Noida-62

CERTIFICATIONS & ACHIEVEMENTS

- Generative AI - Udemy

Developed AI/ML projects in Python, leveraging LLMs and data analysis to automate business insights and build intelligent assistants.