Nikita Patidar

nikitapatidar957@gmail.com patidatnikita183 patidarnikita183 patidarnikita183

SUMMARY

Innovative Data Scientist with 1.5+ years of experience in Machine Learning and Generative AI, Proficient in leveraging advanced frameworks like OpenAI, Hugging Face to develop AI-driven solutions. Passionate about solving complex problems and driving innovation through artificial intelligence.

WORK EXPERIENCE

Data scientist | Xalt Analytics 02/2024 – present
Indore, India

- Participating in projects involving large language models (LLMs). Managed AI projects, collaborated with teams, and mentored junior data scientists, driving innovation and efficiency.
- Developed AI-driven solutions, leading Q-Gen (76% 85% accuracy) and xSmart (60% reduction in manual effort, 30% engagement boost).
- Built AI Bid Comparator using NLP for document alignment and build Query Engine using crewai for Media Planning Assistant Cheque Extraction leveraging YOLO, OCR, and OpenCV for automated data extraction.

SKILLS

Programming skills :
C, Java, Flask, DSA, Python, Machine Learning, Deep Learning, Artificial Intelligence, Gen AI, YOLO, LLM, Agentic Frameworks, Prompt Engineering

Database :
MySQl, Postgres, MongoDB

PROJECTS

Q-Gen – Online Question Bank Generator.
Objective: The primary objective of this project was to create a comprehensive Question Bank, which consists of questions, answers, and detailed solutions.
Tools: Python, Langchain, Agents, LLamaIndex, OpenAI, Huggingface, SSMS Databases, LLM deployment providers (Huggingface, Ollama, OpenAI)
Business outcome: The project improved accuracy from 76% to 85% in generating complex math questions, enhanced decision-making with autonomous question generation, and improved reasoning capabilities for better problem-solving. It also optimized the structuring and formatting of math content, boosting efficiency and content quality

xSmart – Automated Email Generator
Objective: The primary objective of this project was to develop an AI-powered platform for generating personalized emails based on user inputs, including profile types (TEXT/PDF/LINK), sender and recipient details,and content preferences.
Tools: Python, Flask, OpenAI API, Langchain, LLamaIndex
Business outcome: The project made email creation faster, cutting manual work by 60%. It improved personalization with smart learning, boosting engagement by 30%. The system also refined emails based on feedback, making communication more effective.

Query Insight Engine
Objective: To automate media planning and analytics by enabling natural language queries and agent-driven analysis, eliminating the need for manual spreadsheet-based workflows.
Tools : Python, CrewAI, OpenAI APIs, Platform (for front-end deployment), Flask, Pandas, NumPy
Business Outcome: The solution significantly improved the efficiency of media planning by automating repetitive analysis tasks and enabling real-time insights through conversational interfaces. Teams could perform sensitivity analysis, scenario comparison, and goal-based simulations without manual intervention, leading to faster decision-making, reduced errors, and a modernized analytics workflow tailored for large-scale media investment strategies.

EDUCATION

Btech | Sushila Devi Bansal College of Technology , Indore | 8.45 CGPA 2020 – 2024