

Ashutosh Maurya

Data Scientist

CONTACT

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EDUCATION

NIT Calicut

Engineering Physics (2018 - 2022)

CGPA 7.14

Intermediate: 84.6%

Rajasthan Board (2018)

High School: 90.2%

UP Board (2016)

TECHNICAL SKILLS

- Python
 - Pandas
 - NumPy
 - Transformers
 - Machine Learning
 - Deep Learning
 - PostgreSQL
 - FastAPI
 - Langchain
 - Generative AI
 - LLM
 - RAG
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CERTIFICATIONS

- Data Science
 - Python Hackerrank
 - SQL Hackerrank
 - Docker
 - LLM
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MY PROJECTS

sikho-india.com

Educational platform for Math and Physics quizzes, Python learning module with Hackerrank-style coding challenges.

PROFILE

Seasoned data scientist with 2.8 years of hands-on experience in AiOps domain, specializing in Gen AI and Large Language Models. Demonstrated expertise in developing and deploying production-grade LLM solutions, including an advanced chatbot leveraging fine-tuned DeepSeek-R1 model that achieved 85% accuracy in domain-specific responses. Optimized model performance through custom prompt engineering strategies. Additionally, engineered an advanced alert correlation system for AJIO and Jiomart, resulting in a significant 36% reduction in operational overhead. Developed and implemented an alert impact scoring mechanism to proactively identify and mitigate potential incidents. My unique background in machine learning and data science, combined with extensive experience in Generative AI applications, positions me as a comprehensive data scientist capable of delivering end-to-end solutions.

PROFESSIONAL EXPERIENCE

Data Scientist at Jio Platform Limited (Jul 2022 - Present)

- **Custom LLM-Powered Chatbot:** Developed and implemented a specialized chatbot using finetuned DeepSeek-R1 (8B parameters) model on proprietary data. Achieved enhanced performance and domain-specific responses through careful model optimization and training.
- **RAG-Based Document Assistant:** Created an advanced document retrieval system utilizing RAG (Retrieval-Augmented Generation) architecture. Implemented efficient document processing with PGVector for storage and retrieval, generating accurate embeddings from PDF documents for context-aware responses.
- **Self Healing System:** Pioneered the implementation of AI-based self-healing mechanisms to automatically resolve recurring incidents and minimise downtime, resulting in improved system reliability and availability.
- **Alert Correlation:** Developed an innovative alert correlation system to identify master and child alerts, effectively reducing duplicate alerts by 36% and resulting in significant manpower savings.
- **Alert Scoring:** Implemented advanced alert scoring models to prioritize alerts based on severity and potential impact on business operations.