Anoop Kumar Maurya

Data Scientist

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⊙ GitHub ◉ Medium

👤 PROFILE

As a Data Scientist with 3+ years of experience, I'm driven by a passion for innovation and a deep fascination with AI. My expertise lies in Deep Learning, Machine Learning, Generative AI, and a broad spectrum of AI-related fields. I've had the privilege of working on some cool and groundbreaking projects, both personally and at an industrial level.

Throughout my career, I've successfully turned complex problems into actionable insights and scalable solutions. My projects range from developing predictive models and intelligent algorithms to creating generative AI systems that push the boundaries of creativity and functionality. I thrive on the challenge of applying cutting-edge technology to solve real-world problems and deliver tangible results.

📁 PROJECTS

Deep-Drowsiness-Detection-using-YOLO ⊡

Fine-Tuning Llama-3 using Synthetic Data

Self Corrective Coding Assistant ⊡

Advance RAG ⊡

More ⊡
  Please explore my GitHub profile for a comprehensive overview of all my projects.

🧠 SKILLS

GenAI Expertise
  Developed and deployed GenAI projects across AWS and Azure, leveraging various models (RAG, Chatbots, Text-to-SQL), frameworks (LangChain, Llama-Index, Hugging Face), and techniques (model fine-tuning, synthetic data generation).
  • Tools: AWS Bedrock, Azure Cognitive Services, Hugging Face Transformers, LangChain, Llama-Index.

Cloud Computing
  Extensive experience with AWS and Azure, deploying, managing, and optimizing cloud services (e.g., Bedrock, Lambda, S3, DynamoDB, Azure Cognitive Services, Azure Functions).
  • Tools: AWS CLI, AWS SDK, Azure CLI, Azure SDK.

AI/DL Development:
  Proficient in building and deploying AI/ML models in production, including CNNs, web scraping, and MLOps methodologies.
  • Tools: TensorFlow/Keras, PyTorch, Scikit-learn, Jupyter Notebook, Docker, MLFlow .

Data Science
  Strong foundation in data analysis, data engineering, and related tools.
  • Tools: Python (Pandas, NumPy, SciPy, Matplotlib,Sk-learn), SQL.

💼 PROFESSIONAL EXPERIENCE

TCS
Data Scientist & AI Engineer

10/2021 – AI Team
Delhi, India

• **Led the development and deployment of three innovative GenAI projects**, utilizing both AWS and Azure cloud platforms, achieving:
  - **20% reduction in customer support inquiries and 15% increase in customer satisfaction** via a GenAI-powered chatbot deployed on AWS.
  - **30% reduction in data analysis time** and **10% increase in data-driven decision-making** through a text-to-SQL engine deployed on Azure.
• **Built and deployed two AI/ML models into production on AWS Cloud,** demonstrating expertise in:
  - **CNN image classification:** Achieving **90% accuracy,** leading to improved product recommendations and a **15% increase in online sales**.
  - **Web scraping:** Automating data extraction from 100+ websites daily, providing valuable insights for market analysis and competitor research.

- **Developed and tested over 20 GenAI Proof of Concepts (POCs)**, covering various model types (RAG, chatbots, text-to-SQL) and frameworks (LangChain, Llama-Index, Hugging Face). This experience included:
  - **Model fine-tuning:** Successfully fine-tuned GenAI models to enhance performance on specific tasks, achieved desired results.
  - **Synthetic data creation:** Developed and implemented synthetic data generation techniques to augment limited real-world datasets,.
- **Proficient in both AWS and Azure cloud environments**, with expertise in deploying, managing, and optimizing services. Demonstrated a strong understanding of cloud architecture, security, and cost management.

🎓 EDUCATION

MTech in Artificial Intelligence   08/2024 – 07/2026
IIT Patna

BTech in Computer Science and Engineering   08/2017 – 07/2021
Kashi Institute of Technology

🌐 LANGUAGES

Hindi — Native/Bilingual   **Engilsh** — Native/Bilingual

🏅 AWARDS

Best Team Award   2024
TCS

Best Team Award   2023
TCS

Special Achievements Award   2022
TCS

🎖 CERTIFICATES

Azure Fundamentals ⬈   **Machine Learning Masters**
From Microsoft   From Ineuron.in

🎸 INTERESTS

- Reading and Writing Articles   • Playing Cricket   • Traveling New Places