Narayan Jangid

+919462637251 | narine0233@gmail.com | linkedin.com/in/nryn-221 | github.com/Narayan-21

Education

Indian Institute of Science Education and Research Kolkata — Kolkata, WB
Master of Science in Geological Sciences — *Aug. 2021 – July 2022*

Indian Institute of Science Education and Research Kolkata — Kolkata, WB
Bachelor of Science in Geological Sciences, Minor in Physics — *Aug. 2017 – May 2021*

Experience

Machine Learning Engineer — March 2025 – Present
Kloudspot — *Bangalore, KA*

- Enhancing LISA AI to incorporate multiple generative AI capabilities.
- Tech Stack - Python, Docker, FastAPI, Llama 3.1, Deepseek r1, Qwen, LLMs, Finetuning, Text2Mongo

Associate Data Scientist — Nov. 2023 – Feb 2025
Celebal Technologies — *Jaipur, RJ*

- Led the design and deployment of AI-powered solutions, leveraging Azure OpenAI and document intelligence to extract, embed, and index structured/unstructured data, achieving a 15% improvement in BLEU Score and 10% boost in semantic similarity.
- Implemented enterprise-grade security with Azure AD Authentication, APIM, and versioning, ensuring robust compliance for AI and data science solutions.
- Improved the RAG pipeline of existing Microsoft solution for better search results for tabular data, enhancing the Search Result Accuracy from 60% to 85%. Integrated chat history preservation and logging pipeline using Azure Cosmos DB service.
- Designed a hybrid VLM inference system, deploying a quantized finetuned model on edge and full-scale finetuned on cloud. Built a real-time video analytics pipeline with adaptive edge-cloud switching. Developed data prep, tagging, and retraining modules, achieving 77.9% mAP for the usecase. (YOLO11, QLoRA, PyTorch, SmolVLM)
- Modeled and optimized predictive algorithms (ARIMA & SARIMA) and machine learning algorithms (XGBoost, LightGBM, CatBoost, K Means) for predictive analytics in energy demand forecasting, achieving a 75.2% R^2 score for electricity load detection.
- Worked on an on-premise OCR solution using open-source models and fine-tuning them for specific use cases. (Microsoft Table Transformers, Tesseract OCR, Layout Parser, Detectron2, ONNX Runtime)

Data Science Intern — June 2023 – Oct. 2023
Celebal Technologies — *Jaipur, RJ*

- Improved the RAG pipeline of existing Microsoft solution for better search results for tabular data, enhancing the Search Result Accuracy from 60% to 85%. Integrated chat history preservation and logging pipeline using Azure Cosmos DB service.
- Fine tuned GPT-3.5-turbo-1106 and Mistral 7B Models for accurate SQL, NoSQL and Mongo Query generation resulting in DataCompy Score above 95%

Freelance Web Developer — June 2022 – May 2023
Upwork — *Remote*

- Portfolio website development for graphic designers, PhD students and AI Developers.
- Development of video chat platform for the client.
- CI CD Pipeline development for using technologies like Github Actions and leveraging AWS Cloud Services.
- Codebase migration - From MERN Stack to NextJS utilizing File based routing and Server Actions improving the site SEO performance using SSR.
- **Tech Stack:** AWS EC2, AWS S3, ExpressJS, GitHub, gRPC, JavaScript, NextJS, NodeJS, ReactJS, Tailwind CSS, TypeScript

Graduate Research Student — May 2021 – July 2022
IISER Kolkata - Environmental Nanoscience Lab — *Kolkata, WB*

- Quantified As/Mn in estuarine compartments, exceeding WHO limits (0.01 mg/L As, 0.05 mg/L Mn) using statistical modeling.
- Evaluated soil/sediment toxicity and surface-groundwater interactions with risk indices and correlation analysis.

Projects

U-Net Paper Implementation | *Python, Pytorch, Albumentations* May 2023

- Implemented U-Net in PyTorch to segment 512x512 CXR images from a Kaggle pneumonia dataset, achieving a Dice score of 0.87 after 3 epochs with a 23-layer encoder-decoder network.
- Trained on masked images with batch size 16, Adam optimizer (lr=0.0001), and BCE with logits loss, saving and visualizing results (original vs. predicted masks) locally.

Deep Convolutional Generative Adversarial Network | *Python, PyTorch, TensorBoard* June 2023

- Developed a DCGAN in PyTorch to generate 28x28 MNIST digits from a 60,000-image dataset, achieving an FID score of 32.4 after 5 epochs with strided/transposed convolutions.
- Trained with batch size 128, Adam optimizer (lr=0.0002), BCE loss, batch normalization, ReLU/LeakyReLU, and visualized results via TensorBoard

Technical Skills

Languages: Python, C, SQL, JavaScript, TypeScript, Golang
Libraries: Pandas, NumPy, Matplotlib, Transformers, OpenCV, PEFT, PySpark
Frameworks: PyTorch, TensorFlow, Langchain, LlamaIndex, Celery, gRPC, Flask, FastAPI
Frontend Frameworks: ReactJS, NextJS
Technologies: Git, Docker, Databricks, Azure AI Services, Azure Functions, AWS EC2, AWS Lambda, Azure Functions, CloudFlare Workers, Selenium, WebSockets
Databases: MySQL, PostgreSQL, Azure Cosmos DB, MongoDB, Redis, CloudFlare D1

Certifications

- **Microsoft Certified: Azure Fundamentals**
- **Microsoft Certified: Azure Data Fundamentals**
- **Microsoft Certified: Azure AI Fundamentals**
- **Microsoft Certified: Azure Data Scientist Associate**
- **Microsoft Certified: Azure AI Engineer Associate**
- **Databricks Certified: Generative AI Engineer Associate**