

Narayan Jangid

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Experience

Celebal Technologies, Data Science Trainee | On-site (Jaipur)

Nov 2023 - Feb 2024

- Improved the RAG pipeline of existing **Microsoft** solution for better search results for tabular data while enhancing the **Search Result Accuracy from 60% to 85%**. Integrate the chat history preservation and logging pipeline utilizing **Azure Cosmos DB service**.
- Developed a Flask API utilizing **Azure OpenAI and Azure Speech Services** to **stream text and audio data** for RAG architecture, alongside SQL agent integration and a multi-index approach on Azure AI Index.
- Fine-tuned and deployed the **Mistral 7B Model** on the **Databricks** platform for Intent classification.
- Lead a team of 3 Data Scientists working on Financial data report generation use case POC development for client using **OpenAI Assistant API**.
- Prepared the Demo for Interior Design Image Generation by Fine-Tuning the **Stable Diffusion XL** Model.

Celebal Technologies, Jr. Associate Data Scientist (Intern) | Hybrid

June 2023 - Oct 2023

- Fine Tuned **Detectron2** For a specific **Instance Segmentation** application, targeting the identification and segmentation of the corroded areas on electric towers.
- Worked on the Implementation of FastAPI application of **Self-Ask** search engine and **QA over your data with cache** use cases.
- Streamlit Application development for Referring Editing use case using **XDecoder**.
- Created the **Citation and Highlighting Pipeline** in the RAG Solution, enhancing the User experience.

Indian Institute of Science Education and Research Kolkata, Graduate Research Student

June 2021 - July 2022

- Quantitative analysis of metal distribution along the Ganga (Hooghly) estuary: Towards establishing the inter-relation between surface water, groundwater and estuarine water. (A Thesis submitted in partial fulfillment of the requirement for the award of the degree of 'Master of Science' under the supervision of Dr. Gopala Krishna Darbha.)

Education

7.08/10.0 **BS MS Dual Degree in Earth Sciences**, Indian Institute of Science Education and Research | Kolkata, India

2017-22

Major: Earth Sciences, **Minor:** Physical Sciences

Activities: Cricket Club, Kabaddi Club, Ek-Pehal

Courses: Linear Algebra | Analysis I & II | Applied Econometrics | Programming and Data Structures | Probability | Research Methodology

Skills

Programming Python, SQL, Javascript

Libraries Numpy, Pandas, Scikit-learn, Matplotlib, Detectron2, XDecoder, Transformers, PEFT, OpenCV, Selenium, React.JS

Frameworks Pytorch, Flask, FastAPI, Langchain, Celery, Express.JS

Tools Git, MySql, Docker, Microsoft Azure, Databricks, Apache Nifi, OpenAI, Weights and Biases, LaTeX, MS Excel

Soft Skills Time Management, Problem-solving, Documentation, Engaging Presentation, Leadership, On-site coordination.

Projects

Large Language Model Fine-Tuning and Prompt Compression

Dec 2023 - Jan 2024

Associated with Celebal Technologies

- Fine Tuned the **Azure OpenAI - GPT35-Turbo and Mistral 7B models**, collaborating with **LLMlingua** for prompt compression and speed up inference and implemented the **Table transformer** to enhance the Table detection in PDF Documents.

Deep Convolution generative adversarial network implementation using PyTorch.

May 2023

Personal Project

- Developed a Deep Convolution Adversarial Network **DC-GANs** architecture and successfully trained within 50 Epochs. Attained an impressive **DCGAN loss of 0.14** for the generator model, demonstrating generation of realistic synthesis images.

U-NET architecture implementation for Semantic Segmentation.

May 2023

Personal Project

- Implemented the **Semantic segmentation** of Chest X-Rays (CXR) images from pneumonia dataset using **U-NET Architecture**.

Certificates

Oct' 2023 **Microsoft Certified: Azure AI Engineer Associate**, Microsoft

Oct' 2023 **Microsoft Certified: Azure Data Scientist Associate**, Microsoft

Oct' 2023 **Microsoft Certified: Azure Data Fundamentals**, Microsoft

Oct' 2023 **Microsoft Certified: Azure AI Fundamentals**, Microsoft

Oct' 2023 **Microsoft Certified: Azure Fundamentals**, Microsoft

Sep '2023 **Natural Language Processing Specialization**, Coursera

July '2023 **Generative Adversarial Networks Specialization**, Coursera

July '2023 **Fundamentals of Scalable Data Science**, IBM | Coursera

June '2023 **Databricks Lakehouse Fundamentals**, Databricks

May '2023 **Deep Learning Specialization**, Coursera