

Narayan Prasad Das

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EDUCATION

Odisha University Of Technology and Research

Bachelor of Technology in Mechanical Engineering

Bhubaneswar, Odisha

Nov. 2022 – Present

EXPERIENCE

Vocational Training Programme

HAL(Hindustan Aeronautics Limited)

June 2025 – July 2025

Koraput Division

- Studied End to End Manufacturing of Jet Engines.
- Made a Full Report on the Air System in Aero Engines diving deep into the various use of air inside an Aerospace.
- Learned how optimized systems are designed.

PROJECTS

HI Docs | *Langchain, FastAPI, React, SQLite, ChromaDb*

August 2025 – Present

- Developed a full-stack web application using with FastAPI serving a REST API(also Websockets) with React(Chakra UI) as the frontend
- Implemented a LangChain RAG Engine to chunk-embed-retrieve and generate Response
- Used various optimization techniques like Query Decomposition (By Fine-Tuning a BART model), Query Routing for both speed and Accuracy.
- Used Sqlite with ChromaDb for data and vector storage.

Text Classifier | *Tensorflow, pandas, Sklearn*

Jun 2025 – Sep 2025

- Ensembled and Fine Tuned Deep learning Models to Predict how close a text is to a source text.
- Achieved a score of 91 accuracy with global ranking of 61.
- Explored Various NLP Pre-processing, Augmentation and visualization Techniques.

From Scratch | *Pytorch, numpy, Sklearn*

Oct 2025 – present

- An ongoing research project to implement and verify core deep learning architectures using only Python and NumPy, demonstrating a first-principles understanding of model mechanics.
- Implemented a fully-connected Neural Network from scratch in NumPy, including full backpropagation and vectorized gradient descent.
- Exploring Various Optimization Techniques while reading Research Papers and moving towards advance architectures like transformers.

TECHNICAL SKILLS

Languages: C/C++,Python, SQL, Typescript

Frameworks: Langchain, FastAPI, Tensorflow, React

Developer Tools: Git, Github

Libraries: Scikit-Learn, Pandas, NumPy, Matplotlib

Competition Profile : Rank 61 in a Kaggle competition,Leetcode(Max Rating:-1528), Codeforces(Max Rating:-1293,Pupil), Codechef(Max Rating:-1676,3 Star)