Diveyam Mishra

Software Developer|Machine learning Engineer

Github |LinkedIn |Portfolio|mishradiveyam@gmail.com |7999616174

Education

Graduation	Shri GS Institute of Technology and Science	2026	78%
Intermediate	St. Paul Higher Secondary School	2022	92.2%
Matriculation	St. Paul Higher Secondary School	2020	92.8%

Work Experience

Data Science Intern| Supply Mint   **Oct 2024 – Mar 2025**
- Structured a **Time-series** forecasting model to optimise inventory, achieving an **11%** reduction in stock holdings.
- Leveraged Generative AI to enable natural language processing (NLP) for querying personal SQL databases through agentic workflows, streamlining data retrieval processes with **90%** robustness.

Machine Learning Intern | TRABII   **Jun 2024 – Jan 2025**
- Designed and assembled new software features by collaborating with cross-functional teams, leading to the successful completion of **17** major feature enhancements, increasing overall product functionality by **35%**.
- Deployed and fortified a **GNN**-based recommendation system that increased user engagement by **60%**.
- Spearheaded DevOps initiatives, implementing CI/CD pipelines with Jenkins and Docker and microservices architecture using Kubernetes, reducing deployment time by **70%** and increasing release frequency by **3x.**

Data Science Intern | JSW   **May 2024 - July 2024**
- Scraped and assembled a data extraction process that aggregated information from **500** PDF files through Google API and Tabula, resulting in a streamlined Excel dataset that improved reporting accuracy for **10+** stakeholders.
- Engineered and regulated a robust **LSTM** model to predict energy consumption trends with **80 %**+ Accuracy.
- Minimised grid operations and enhanced service delivery with a **25%** faster response to fluctuations in demand.

PROJECTS

Data of Acute Traumatic Brain Injury Patients | Exploratory Data Analysis
- Developed ML model using CWT and CNN, achieving **76%** accuracy in classifying EEG data for m-TBI patient identification.
- Composed neural network parameters, determining the optimal batch size as **32** and the learning rate to be **0.001** for peak performance.

Black and White Image Colourisation | Computer Vision Project
- Restructured a CNN model for converting black-and-white images into colour, leveraging L, A, and B colour space.
- Programmed a model to manage a variety of real-world scenes using the Scene Understanding dataset, attaining a precision score of 56%.

Benchmarking large language models | Research Project
- Engineered a project to fine-tune the OpenAI Whisper model, improving accuracy by **26%** from **49 to 36** Word Error Rate (WER).

Fashion Fit Virtual Wardrobe AI | Deep Learning Project
- Implemented a robust image processing pipeline for precise clothing detection, achieving realistic clothing visualisation.
- Optimised system performance by leveraging CUDA acceleration, resulting in a **40%** improvement in processing speed.

POSITION OF RESPONSIBILITY

Branch Coordinator, Training and Placement Cell
- Served as primary liaison between **120+** students and employers, facilitating career development opportunities.
- Demonstrated strong communication and networking skills by reaching out to **30+** HR professionals, coordinating recruitment drives, and ensuring seamless interaction between students and employers.

SKILLS

- **Programming:** R, SQL, C++, Python, JavaScript, NoSQL, React, MATLAB
- **ML and AI:** NLP, LLM, Deep Learning, Probability and Statistical modelling, Computer Vision
- **Cloud and Dev-Ops:** Kubernetes, AWS, Azure, Docker, RabbitMQ, Hadoop, Hive, Spark
- **Tools and Libraries:** TensorFlow, PY-Torch, Pandas, Matplotlib, Scikit-learn, REST API, MATLAB, Git