Diveyam Mishra

Diveyam-Mishra | Diveyam-Mishra | LeetCode | mishradiveyam@gmail.com | +91-7999616174

Degree	University	Institute	Year of Passing	Percentage
Graduation	RGPV	SGSITS	2026	7.42/10
Intermediate	CBSE	ST. PAUL SCHOOL	2022	92.2%
Matriculation	CBSE	ST. PAUL SCHOOL	2020	92.8%

Work Experience

Software Developer | TRABII June 2024 - Present

- 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 a microservices architecture using Kubernetes, reducing deployment time by **70%** and increasing release frequency by **3x.**

Data Science Intern | JSW May 2024 - July 2024

- Scarped 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.
- Minimized grid operations and enhanced service delivery with a **25%** faster response to fluctuations in demand.

Projects

EEG Data of Acute TBI Patients | Image-Based 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.

Quantum Approach to Credit | Risk Analysis

- Revamped a quantum circuitry approach to solve risk-reward problems using the **Qiskit** library to estimate Var CVaR.
- Performed quantum amplitude estimation to obtain **80%** accuracy in the expected loss for the Gaussian uncertainty model.
- Benchmarked a multi-state quantum register against **Monte Carlo** simulations showing **89%** accuracy for Var estimation.
- Devised genetic algorithms using ML as a subset of evolutionary algorithms to get a **15%** more refined portfolio.

B&W Image Colorization | Computer Vision Project

- Restructured a CNN model for converting black-and-white images into color, leveraging **L, A, and B** color space.
- Programmed a model to manage a variety of real-world scenes using the Scene Understanding dataset, attaining a precision score of 56%.

Multi-modal Whisper Analysis | 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 visualization.
- Optimized system's performance by leveraging CUDA acceleration resulting in **40%** improvement in processing speed.

Scholastic Achievements

- Ranked in **top 10%** with a contest rating of **1750+** on LeetCode, demonstrating strong ability to learn and adapt.
- Maintained a rating of **1200+** Codeforces, demonstrating consistent performance in Competitive Programming.

Skills

- **Operating Systems:** Windows, Linux
- **Coding Languages:** R, SQL, C++, Python, HTML5, CSS, JavaScript, Flutter, NoSQL
- **Machine Learning:** Natural Language Processing, Large Language Models, Deep Learning
- **Software Skills:** Kubernetes, AWS, Azure, Tableau, MATLAB Simulink, RESTful API, Tinker CAD, Arduino IDE

Position of Responsibility

Branch Coordinator, Training and Placement Cell

- Served as primary liaison between **120+** students and employers, facilitating career development opportunities.