PIJUSH DAS

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SUMMARY

B.Tech graduate in Information Technology, currently working as an AI/ML Developer at Calsoft, with hands-on experience in designing and deploying machine learning and deep learning solutions. Proficient in building scalable AI applications using Flask, and well-versed in Large Language Models (LLMs) and Generative AI (GenAI) technologies. Demonstrated ability to work across the AI/ML pipeline—from data preprocessing and model training to deployment and optimization.

WORK EXPERIENCE

Jr. Data Scientist at Calsoft   Sep 2025 - Present

Low Code Framework   May 2025

- Developing a low-code AI framework POC with an interactive chatbot for dataset upload, data cleaning, and automated regression, classification, and time series model evaluation with accuracy comparison.

AI/ML Intern at Calsoft   Feb 2025 - Aug 2025

QaaS - Interactive Chatbot   May 2025

- Used LangGraph to create a multi-agent chatbot which had access to various KPI related tools. Added a memory and concurrency capabilities to the chatbot. Created an UI using FastAPI and React JS.

Automatic Number Plate Recognition (ANPR) System   June 2025

- Designed and deployed Automatic Number Plate Recognition (ANPR) that detects and extracts number plates from static images, with results stored in CSV format. Hosted on an AWS VM, the system is now being enhanced to support real-time video input and optimized to perform reliably under challenging conditions like fog, low light, and diverse plate formats.

EDUCATION

Meghnad Saha Institute of Technology, Kolkata, West Bengal   2021-2025

Bachelor of Technology in Information Technology
- CGPA : 8.77

Searsole Raj High School, Raniganj, West Bengal   2018-2020

- Class XII - Percentage : 83

Searsole Raj High School, Raniganj, West Bengal   2017-2018

- Class X - Percentage : 88

SKILL

- **Programming Language** - Python, JAVA
- **Technologies & Tools** - Machine Learning, Deep Learning, LLMs (Large Language Models), Generative AI (GenAI), Flask, FastAPI, Tensorflow
- **Subject of Interest** - DBMS OOP, Computer Network, Operating System
- **Others** - MySQL, GitHub, Statistics

PROJECTS

Cassava Leaf Disease Identification and Classification   June 2025

- Developed an automated cassava leaf disease classification system using a deep learning-based InceptionV3 model with transfer learning, achieving 83% test accuracy. The model enables early and accurate detection of plant diseases, improving crop health and supporting food security.

Smart Home Automation Using IOT   January 2024

- A smart home solution using ESP32 with occupancy controls, water and air monitoring, and weather-based adjustments for convenience and sustainability.

CERTIFICATES AND ACHIEVEMENTS

- **Smart India Hackathon 2023 | LINK** - Got honored for the 2nd runner up in SIH'23 college level
- **Machine Learning Specialization | LINK** - studied modern machine learning concepts, including supervised learning (linear regression, logistic regression, neural networks, decision trees), unsupervised learning(clustering, anomaly detection), recommender systems, and reinforcement learning.