Avishek Dutta

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EDUCATION

❖ B.Tech -Computer Science and Engineering | Calcutta Institute of Technology , West Bengal

CGPA: **9.05** |(Sep '21 – Jul '25)

❖ XII (WBCHSE) |Katiahat B.K.A.P Institution , West Bengal

87.60 %|2021

❖ X (WBBSE) |Punra B.K.M.P Institution , West Bengal

75.71 %|2019

SKILLS

- ❖ **Python**
- ❖ **SQL (MySQL , MongoDB)**
- ❖ **Machine Learning , Deep Learning**
- ❖ **MLOps (Mlflow , Docker , Jenkins , Google Cloud Platform)**
- ❖ **Git & GitHub**
- ❖ **Web Development (Flask ,HTML , CSS , JavaScript, ReactJS , NodeJS)**
- ❖ **Java**

ACADEMIC PROJECTS

❖ **Hotel Reservation Prediction (End-to-End MLOps Project)**
Developed a production-grade ML pipeline with automated ingestion, preprocessing, and MLflow experiment tracking. Deployed scalable model on Google Cloud Run, enabling accurate prediction of cancellations to assist hotels in revenue planning.
Improved booking prediction accuracy by 15% vs baseline.
Designed CI/CD workflow (Jenkins + Docker) ensuring continuous deployment.
(Independently designed and implemented end-to-end solution)
Tech Stack - Python, MLflow, Docker, Jenkins, GitHub, GCP

❖ **Leaf Disease Detection**
Developed a deep learning-based web application to detect diseases in various types of plant leaves. Used transfer learning with pre-trained CNN models to classify leaf diseases and assist in early crop treatment. The model was deployed using Flask for user interaction.
Achieved 92% accuracy in early plant disease detection, helping reduce potential crop losses.
Tech Stack - Python , TensorFlow, Keras , NumPy , Matplotlib , Flask .
Group project , My contribution : Collected & preprocessed dataset, performed data cleaning, and trained the deep learning model , and developed Flask-based web UI for interaction.

❖ **Mysterious Cloak**
Created a fun computer vision-based application that simulates an invisibility cloak using background subtraction and color segmentation. Integrated with Flask for basic web hosting.
Tech Stack - Python , OpenCV , NumPy , Flask , HTML , CSS , JavaScript .
Self-built project developed end to end .

ACHIEVEMENTS

- ❖ **Smart India Hackathon 2024 Winner**
- ❖ **Tech Expo 2024 Winner**