

## Debartha Chakraborty

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### Education

#### Netaji Subhash Engineering College

B.Tech, Computer Science & Engineering. ||GPA : 8.67

Kolkata, IN

2020 – 2024

#### Behala Aryya Vidyamandir

Physics-Chemistry-Mathematics-Computer Science ||Percentage : 87.2%

Kolkata, IN

2018~2020

### Experience

#### Clearspot.ai

Remote

#### Machine Learning Engineer (Freelancer)

07/2023 – Present

- Trained and Optimized Deep Learning models with YOLO and converted to run on very limited resources of Edge devices and android.
- Made POCs based on client requirements with tight deadlines.
- Built and Deployed services on GCP.
- Mentored and lead a team of interns on projects.

### Projects

#### AI Ticket Assignment System

May, 2024

Python 3, CrewAI, Langchain, LLama 3, GROQ, ReactJS

- Multiple AI agents work as a team and assigns tickets to employees
- System finds out suitable Employees for each tasks based on the task description and employee skills.
- System takes into account the number of active tasks of Employees while assigning tasks.

#### Youtube Data Analysis

December, 2023

AWS, Python 3, S3, IAM, Glue, Athena, Lambda, Quicksight

- Data stored in S3 bucket, then cleaned using lambda and glue.
- Glue ETL job to model the data and store it in structured parquet format.
- Multiple S3 Buckets for step by step data processing.
- QuickSight Dashboard for Visualization.

#### Solar Panel Inspection with Thermal Images

August, 2023

Python 3, YOLO, Numpy, OpenCV

- Solar Panel inspection with thermal camera equipped drones
- Developed a set of Object Detection and Classification models with YOLOv8
- A Combination of serial and parallel inference was applied
- Object Detection Model detects Solar panels and the Classification model identifies if there is a defect; If defect is present what kind(Cell defects, Cracking. Delamination, Shading, etc.)

### Skills & Interests

**Programming Languages:** C, C++, Python, Javascript(basic), Rust(Basic)

**Frameworks Tools:** Flask, Langchain, Pytorch, Jupyter notebook, YOLO

**Databases:** MySQL, PostgreSQL, SQLite3

**Cloud:** AWS, GCP

**Language:** Bengali, English, Hindi

**Interests:** AI, Robotics, Drones, ROS, IOT