

MITHILESH GOPALAKRISHNAN . S

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[LinkedIn](#) - [GitHub](#) - [LeetCode](#) - [Portfolio](#)

EDUCATION

VIT UNIVERSITY

Bachelors of Technology in **Electronics and Communication Engineering**, Chennai

2022–2026

CGPA: **8.75**/10.00

NSN MEMORIAL SR. SECONDARY SCHOOL

Chitlapakkam, Chennai

2015–2022

Grade XII – **91.4%**

TECHNICAL SKILLS

Languages: Python, R, C, C++, Java, MATLAB

Databases: SQL, Firebase

Frameworks: Flask, FastAPI, Django,

Libraries: Pandas, Scikit-Learn, Seaborn, Matplotlib, PyTorch, TensorFlow

Visualization: PowerBI, Tableau

PROFESSIONAL EXPERIENCE

BAHWAN CYBERTEK - *Software Engineering Intern*

May-Jul 2025

- Optimized **Flask applications** with **session management**, reducing server load and response time by **40%**.
- Enabled **multi-user session management** on single-server deployments.
- Optimized **data processing logic** to handle **1M+ records** efficiently.
- Resolved record mismatch issues in the **Table Comparison module**.
- Automated **PDF data extraction and transformation** for real-time file comparison.

PROJECTS

Real-Time Haul Truck State Classification

- Built a GPS-driven **ML pipeline** to classify truck states (loading, hauling, dumping, idle) with **92% accuracy** using **Random Forest**.
- Processed and merged **500K+ telemetry records** with operational logs using time-alignment and feature engineering.
- Automated **preprocessing** (deduplication, datetime normalization), reducing data cleaning time by **60%**.
- Enabled **real-time monitoring**, improving **fleet visibility** and reducing manual tracking efforts by **80%**.

Image-Based Entity Extraction

- Engineered an **OCR pipeline** with **Tesseract** and **OpenCV**, improving text extraction accuracy by **35%** through advanced **image preprocessing** (deskewing, binarization, contrast tuning).
- Processed and extracted **structured data** from **10K+ product images** using automated batch handling and **entity parsing**.
- Enabled high-quality input generation for downstream **ML models**, reducing manual annotation effort by **60%**.

AutoML Weather Classification

- Developed a weather classification system using **PyCaret AutoML**, automating **data cleaning, feature engineering, model selection, and evaluation**.
- Customized and trained a **LightGBM classifier** with advanced **hyperparameter tuning**, achieving **92.4% accuracy** on **multi-class weather prediction**.
- Visualized **model errors** and **feature importance**; automated predictions and submission generation for **15K+ samples**, reducing manual workflow by **70%**.

ACHIEVEMENTS

- 1st Place – DataQuest — VIT** Feb 2025
Won **Image Classification Challenge** by developing a **CNN model** with **91% accuracy** and **interactive dashboard**.
- 1st Place – Data Analytics Hackathon — IIITDM, Kanchipuram** Mar 2024
Used **ADAS** and **CAS data** for advanced **traffic analysis**, identifying **accident hotspots** via **spatial-temporal analytics**.
- 1st Place – ML Mania Challenge — Anna University, Chennai** Apr 2024
Secured **1st place**; built **classification models** with **94% accuracy** using **data cleaning** and **feature engineering**.

CERTIFICATIONS

Microsoft Certified: Azure AI Engineer Associate (AI-102)

July 2025

- Validated expertise in designing and implementing **Azure AI solutions**, including **cognitive services, machine learning, and responsible AI practices**.