MITHILESH GOPALAKRISHNAN . S

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EDUCATION

VIT UNIVERSITY, Chennai

Bachelors of Technology in Electronics and Communication Engineering

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, Verilog, MATLAB

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

Cloud Technologies: Google Cloud

Data Visualization : PowerBI, Tableau

PROFESSIONAL EXPERIENCE

BAHWAN CYBERTEK -   Backend Engineering Intern

May - Jun 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 extraction and transformation of unstructured PDF data for real-time file comparison.

PROJECTS

ThunAI- Real-Time Safety Reporting App

Aug 2024

- Developed a cross-platform safety app using **Firebase** and **Twilio** for **real-time** incident reporting and **emergency** notifications.
- Integrated **Google Maps API** for live location tracking, heatmap generation, and geospatial analysis of **high-risk** areas.
- Built a real-time **user forum** and applied data visualization techniques to drive community awareness and highlight safety trends.

Advanced Road Safety using ADAS Warnings

Feb 2024

- Performed map-based clustering on historical accident datasets to identify high-risk zones and accident patterns.
- Analyzed accident density per sq. km to highlight top hotspots and areas prone to recurring incidents.
- Applied spatial analysis and clustering algorithms to uncover location-specific trends and causal factors.

DermAI : Digital Assistant for Skin Cancer Detection:

Nov 2024

- Developed an AI-driven skin cancer detection platform enabling users to upload images for analysis via a **CNN** model.
- Integrated a **Gemini-powered medical chatbot** to provide instant cancer-related answers and hospital recommendations using **location** proximity.
- Utilized **Streamlit, TensorFlow, Google Maps API, and Folium** for end-to-end implementation.

MAIL SUMMARIZER using GenAI

Apr 2024

- Integrated **Gmail API** to extract emails and **Gemini API** for automated email summarization.
- Leveraged **Google Calendar API** to deliver **real-time calendar updates** on the website.
- Developed the platform using the **Django** framework.

ACHIEVEMENTS

Winner - Data Analytics Hackathon | IIITDM , Kancheepuram

- Utilized **ADAS and CAS warning data** for **advanced traffic analysis**, identifying **accident patterns** and **hotspots** through **spatial and temporal analytics.**
- Conducted **in-depth examination of traffic incidents** across **central and southern India** using advanced **data analysis methodologies**.

Winner - ML Mania Challenge | Anna University, Guindy

- Secured 1st place in the ML Mania Challenge at the Abacus Symposium, demonstrating expertise in both theoretical and practical machine learning.
- Led dat**a cleaning, feature engineering, and developed classification models** achieving **94%** accuracy for the given problem statement

Winner - DataQuest '25 | VIT, CHENNAI

- Won **1st place** in the Image Classification Challenge by building a **CNN model with 91%** accuracy using **convolutional layers and ReLU activation**.
- Demonstrated strong skills in **EDA** and **deep learning**; delivered insights through an **interactive data visualization dashboard.**

Finalist - CodeCycle | Anna University, Guindy

- Finalist in CodeCycle Challenge, placing **4th** and advancing to the **Top 20** from hundreds of teams.
- Solved advanced problems in **JavaScript runtime, Deep Learning, Linux automation, and cryptography**.

Finalist - DataQuest '24 | VIT, Chennai

- Secured **Top 5 position** among **250+ participants** by demonstrating strong skills in **exploratory data analysis (EDA) and pattern recognition**.

CERTIFICATIONS

1) AWS APAC Solutions Architecture (Forage)- Jan 2025

- Designed a scalable and efficient cloud hosting architecture using **AWS Elastic Beanstalk** to improve performance and handle **high traffic growth.**