MOHAMMED FADIL SAYEED

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EDUCATION

Government College of Engineering, Kannur

B. Tech - Computer Science and Engineering - CGPA: 7.95   2021 - 2025

Sanjos Senior Secondary School

Class XII - 92%   2020

PROJECTS

[Ongoing] SproutAI - Fine-Tuned Agricultural Assistant in Malayalam
- Developing an AI-powered agricultural assistant, **SproutAI**, fine-tuned using the PLLaMA model for Kerala's agriculture sector. It supports voice input, transcribes queries using Whisper, and delivers responses in voice, all in Malayalam. Deployed as a WhatsApp chatbot, it provides seamless access to agricultural information.

GoCamp - Campground Reviews and Management
- Developed a full-stack web application for camping enthusiasts using Node.js, Express, and MongoDB. Implemented secure user authentication with Passport.js, full CRUD functionality for campgrounds and reviews, integrated Mapbox for location services, and Cloudinary for image storage.

AWS Project - VPC Setup for Production
- Designed and implemented a resilient AWS VPC for production environments, featuring servers in private subnets across multiple Availability Zones. Configured Auto Scaling groups, an Application Load Balancer for traffic distribution, and NAT Gateways for secure internet connectivity.

Credit Card Fraud Detection
- Developed a machine learning model using logistic regression to detect fraudulent credit card transactions. The process involved data preprocessing (cleaning, normalization, and splitting), model training for binary classification, and evaluation using accuracy score to assess performance.

INTERNSHIPS

Research Intern - IIIT Kottayam
- Researching the application of Graph Neural Networks (GNNs) for solving complex problems in graph-structured data, focusing on enhancing performance and scalability.
- Working on optimization techniques for the Internet of Vehicles (IoV), exploring methods to improve communication, data sharing, and overall system efficiency.

SKILLS

- **Languages:** C++, Python, SQL
- **Technologies/Frameworks:** Node, Express, MongoDB, Machine Learning, LLMs, Fine-Tuning
- **Developer Tools:** VS Code, Colab
- **Cloud Platform:** AWS

EXTRA-CURRICULAR

- Program Head of WeCode GCEK, a leading coding community fostering learning, collaboration, and innovation.
- Secured 2nd prize in the Idea Pitching event at Xplore 24, a national-level multifest.
- Active participant in department football team, contributing to inter-departmental tournaments and team strategies.

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