Mohammed Sahad C P
Software Engineer

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Profile

To leverage my passion for Python development and machine learning to contribute innovative, data-driven solutions in a dynamic environment. I aim to grow by solving real-world challenges while enhancing my technical and creative capabilities.

Education

- **B.Tech in Computer Science & Engineering** (2021-2025)
  College Of Engineering, Thalassery under **APJ Abdul Kalam Technological University (KTU)**

- **Higher Secondary education** (2018-2020)
  Govt H.S.S Vengad under **Kerala HSE Board**

Project Works

Automated Coffee Beans Sorting System

- Developed a Python-based image classification system using OpenCV and machine learning.
- Automated bean sorting based on color, size, and roasting level quality.
- Integrated with stepper motor and servo motor for real-time IoT-based sorting.
- Developed an end-to-end automation pipeline combining computer vision with hardware control.

Surveillance Video Summarization Software

- Developed a video analysis system using YOLO for object detection and event extraction.
- Implemented a PyQt6 interface, enabling seamless footage uploads and automatic key-event summarization, reducing manual review time by 40%.

Online Service Market using Django

- Developed and deployed a web-based marketplace using Django, MySQL, and JavaScript.
- Implemented secure authentication, service listings, and booking features.

Certifications

- **Supervised Machine Learning: Regression and Classification (Stanford Online) - January 2024**
  https://coursera.org/share/d415fe9f5aaaea5acd61de5939464430
- **Introduction to C programming (NPTEL) – April 2023**

Workshops Attended

- "Intelligent Systems Workshop: Advanced Embedded AI for Real-World Problems" conducted by IIT Palakkad Technology IHub Foundation
- Electric and Future Mobility workshop organized by Techmaghi
- App development workshop by IEDC COET

Personal Skills

- **Technical Skills**: Python, C, C++, Java, MS Office Tools
- **Machine Learning &AI:** YOLO, OpenCV, Scikit-learn, Pandas, NumPy
- **Web Development & APIs**: Django, HTML, CSS, JavaScript, REST APIs
- **Database Management**: MySQL, SQLite
- **Version Control**: Git, GitHub
- **Soft skills**: Problem-Solving, Communication, Adaptability, Quick learner, Teamwork
- **Languages**: Malayalam: Fluent | English: Fluent | Hindi: Intermediate | Tamil: Intermediate