Mohammed Saad Affan A

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Vaniyambadi, Tamil Nadu, India

SUMMARY

Second-year B.Sc Computer Science student at VIT Vellore (CGPA: 8.11) with practical experience in modern technologies and application development. Strong analytical mindset and quick learner. Looking for a one-month internship to gain hands-on industry experience and contribute effectively.

EDUCATION

Vellore Institute of Technology (VIT) — Vellore, Tamil Nadu
Bachelor of Computer Science (AI & ML) – CGPA: 8.11 — Jul 2024 – Jul 2027

Islamiah Boys Higher Secondary School (IBHSS) — Vaniyambadi, Tamil Nadu
Matriculation & Higher Secondary (Mathematics & Computer Science)
– 12th Grade: 74.6% — 10th Grade: 71.5% — Jun 2022 – Mar 2024

TECHNICAL SKILLS

Programming: Python, Java, C++, JavaScript
Web Technologies: HTML5, CSS3, JavaScript, Node.js, Flask
Databases: MySQL, MongoDB
AI & Data: Machine Learning, Data Analysis, Pandas, NumPy, Scikit-learn
Tools & Platforms: VS Code, Linux, Git, GitHub, Vercel, Canva
Concepts: Data Structures & Algorithms (DSA), Object-Oriented Programming (OOP), REST APIs
Languages: English, Hindi, Tamil, Urdu

PROJECTS

AI-Based Smart Attendance System (Face Recognition + IoT) — GitHub — 4th Semester
Python (Flask) — OpenCV — ESP32-CAM — Pandas — JavaScript

- Developed a real-time smart attendance system using face recognition with CNN-based embeddings for accurate identification
- Integrated ESP32-CAM IoT module for live video streaming and edge-based image capture over WiFi
- Implemented automated attendance marking with time-based classification (Present / Late) using rule-based logic
- Built an interactive web dashboard to display live camera feed and real-time attendance status
- Automated Excel report generation using Pandas with duplicate prevention and structured daily records
- Optimized performance by reducing latency in video streaming and improving face detection accuracy
- Engineered a scalable edge AI system combining computer vision, IoT integration, and real-time data processing

Student Stress Prediction System (Machine Learning Project) — GitHub — 4th Semester
Python — Scikit-learn — XGBoost — Pandas — NumPy — Matplotlib

- Developed a machine learning system to predict student stress levels using academic, lifestyle, and social factors
- Implemented multiple models including Logistic Regression, Random Forest, SVM with PCA, and XGBoost
- Achieved highest accuracy of 85% using XGBoost on structured student dataset
- Applied data preprocessing techniques including encoding, normalization, and feature scaling to improve model performance
- Utilized PCA for dimensionality reduction, enhancing model efficiency and generalization
- Evaluated models using accuracy, precision, recall, F1-score, and confusion matrix
- Identified key stress factors such as sleep quality, academic pressure, and social influence using feature analysis

ADDITIONAL INFORMATION

Currently Learning: Advanced Web Development, AI & Machine Learning Concepts

Technical Strengths: Object-Oriented Programming (OOP), Data Structures & Algorithms (DSA), Problem Solving

Soft Skills: Effective Communication, Team Collaboration, Adaptability, Continuous Learning Mindset

Extracurricular Activities: Video Editing & Content Creation