

Adwaith S

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Profile

Aspiring Software Engineer skilled in Python, Java, and C++. Experienced in developing secure, scalable applications, optimizing performance, and managing databases. Strong problem-solving, collaboration, and communication skills, with a solid foundation in data structures, algorithms, and efficient coding practices. Committed to continuous learning and delivering high-quality, user-focused solutions.

Education

Bachelor of Technology in Computer Science and Engineering, Grade : 7.73 <i>Amrita Vishwa Vidhyapeetham</i>	2022 – present Kollam, India
Higher Secondary in Science, Percentage : 96.33 <i>Govt. Sanskrit HSS</i>	2019 – 2021 Vadakara, India
Secondary School, Percentage : 99.21 <i>Memunda HSS</i>	2018 – 2019 Vadakara, India

Projects

Deforestation Detection and Prevention using Cloud AI and Remote Sensing <i>Google Earth Engine, Sentinel-2 Imagery, NDVI Analysis, Python, Streamlit, Google Cloud</i>	2025
<ul style="list-style-type: none">Built a cloud-based monitoring application to detect forest loss using remote sensing data.Developed an interactive Streamlit dashboard for real-time alerts, multi-year vegetation trend comparisons, and intuitive visualization.Ensured scalability and high accuracy for large geospatial datasets.	
Hybrid Graph-Based Recommendation System <i>Python, NetworkX, scikit-learn, TF-IDF, cosine similarity, Streamlit</i>	2025
<ul style="list-style-type: none">Developed a hybrid recommendation engine integrating structural (Common Neighbors, PageRank), semantic (TF-IDF, cosine similarity), and community features for precise social/web suggestions.Designed a Streamlit dashboard to visualize results, achieving high Precision@k, Recall@k, and NDCG@k scores.	
AI-Powered Ransomware Detection System <i>Python, scikit-learn, Isolation Forest, Random Forest, Pandas, NumPy, Matplotlib</i>	2025
<ul style="list-style-type: none">Created a machine learning pipeline to detect ransomware via behavioral pattern analysis.Preprocessed data, performed feature extraction, and trained models for accurate classification and timely alerts.	
Medical Health ID Card System <i>Node.js, Express.js, MongoDB, JWT, REST APIs</i>	2025
<ul style="list-style-type: none">Engineered a secure and scalable healthcare portal for digital health records management.Implemented JWT-based authentication and ensured adherence to coding best practices.	

Courses

Data Analysis with Python 	01/2025
<i>IBM Developer Skills Network (Cognitive Class)</i>	

ACHIEVEMENTS

IEEE Paper Publication 2025 :

2025

- Presented a paper titled “Deforestation Detection and Prevention using Cloud AI and Remote Sensing” accepted at the IEEE Amrita Conference on Computing, Communication and Intelligent Systems (CIS 2025).
- Developed a cloud-based monitoring system using Google Earth Engine, Sentinel-2 imagery, and NDVI analysis, with an interactive Streamlit dashboard for real-time deforestation tracking.

COMMUNITY OUTREACH PROGRAM

HTML Workshop (2024)

Conducted a web development awareness initiative for high school students at VGSSA HSS, Kollam.

- Educated students on the fundamentals of HTML and website creation through an interactive workshop.
- Engaged students with hands-on coding, live demos, and Q&A sessions.

Skills

Programming: Java, Python, C++

Databases: MongoDB, MySQL

Cloud & Tools: Google Cloud, GitHub, Streamlit,
Docker

Data Engineering & Analytics

Languages

- Malayalam (Native)
- English(Proficient)
- Hindi(Conversational)