Sahithi Aharam

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EDUCATION

Vellore Institute of Technology, AP   2021 – present
Bachelor of Technology in Computer Science and Engineering   Amaravati, AP
Specialization: Artificial Intelligence and Machine Learning
Cumulative GPA: 8.48
Relevant Coursework: Supervised Learning, Unsupervised Learning, Deep Learning, Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems, Web Development

Narayana Junior College   **2019 - 2021**
Intermediate (Mathematics, Physics, Chemistry) • GPA: 9.71   Hyderabad, Telangana
Dilsukhnagar Public School   **2019**
GPA: 9.5   Hyderabad, Telangana

EXPERIENCE

INTRAIN TECH | *ML Intern*   October 2023 – November 2023
- Designed and implemented RNN-based time series forecasting model in Python using TensorFlow and Keras.
- Achieved 92% accuracy in predicting sales trends from multivariate retail datasets (20K+ records).
- Reduced stock-out incidents by 30% and improved inventory demand planning through predictive analytics.

ETHNUS | *AWS Solution Architect*   August 2023 – November 2023
- Developed a scalable serverless web application using AWS Lambda, API Gateway, DynamoDB, S3, SES, SNS, and CloudWatch.
- Deployed a customer support ticketing system with real-time issue tracking and asynchronous processing.
- Automated 70% of manual support operations and ensured 99.9% system availability.

PROJECTS

REMOTE PATIENT MONITORING SYSTEM | *Python, Streamlit, YOLOv8l, MediaPipe, OpenCV*   May 2025
- Designed and implemented a real-time patient monitoring platform using computer vision and deep learning.
- Achieved 92% fall detection accuracy via velocity-based posture estimation using MediaPipe on Roboflow dataset.
- Reached 98.4% classification accuracy in identifying patient sleep and pose states using joint and eye aspect features.
- Deployed a real-time Streamlit dashboard integrating YOLOv8l (mAP 0.89) for live detection via webcam and video feed.

PARKINSON'S DISEASE DETECTION | *Python, Firefly Algorithm, ML Algorithms & Voting Classifier*   November 2024
- Engineered a feature selection pipeline using the Firefly Algorithm to optimize input variables and reduce dimensionality.
- Trained and evaluated ensemble models including SVM, Decision Tree, MLP, SGD, and KNN using majority voting.
- Achieved 94% accuracy and 0.93 F1-score, evaluated via confusion matrix, cross-validation, and classification metrics.

DRIVE TO DESTINY/ *HTML, PHP, CSS, SQL, Java Script*   April 2024
- Implemented a content-based filtering algorithm to match candidates to relevant job postings based on skillsets.
- Supported over 200 users and facilitated direct messaging between job seekers and employers.

SKILLS & CERTIFICATIONS

Programming Languages: Python, SQL, JavaScript, HTML, CSS
Machine Learning & AI: Scikit-learn, TensorFlow, Keras, PyTorch, XGBoost, NLP, NumPy, Pandas, Matplotlib, Seaborn, NLTK Ensemble Learning, Feature Engineering
Web Technologies: Flask, Bootstrap, React, Node.js, PHP
Tools & Platforms: Jupyter Notebook, Tableau, VS Code, Google Colab, Power BI, MS Excel, Canva, Figma
Certifications: Externship Program in Artificial Intelligence and Machine Learning – SMART INTERNZ (Powered by Google), 100 Days of Code: Python Bootcamp – Dr. Angela Yu (Udemy), Machine Learning Crash Course – Google, Full-Stack Web Development Bootcamp – Dr. Angela Yu (Udemy), Getting Started with Deep Learning – NVIDIA, Generative AI Explained – NVIDIA

ADDITIONAL

PUBLICATIONS
• AI, CHATBOTS AND PRIVACY, Futuristic Trends in Social Sciences Volume 3 Book 22, IIP Series, Volume 3, May, 2024, Page no.71-78, e-ISBN: 978-93-5747-412-2.
DIY CLUB VIT-AP: PUBLIC RELATIONS LEAD   August 2022 – June 2023
• I led internal and external communications and designed event graphics while coordinating with stakeholders to support cross-functional collaboration