

Mohammed Ayan

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EDUCATION

VELLORE INSTITUTE OF TECHNOLOGY, Vellore

Bachelor of Technology - Computer Science and Engineering

Relevant Coursework: DBMS, Artificial Intelligence, Principles of Management, Software Engineering, OS, Computer Networks

SRI CHAITANYA TECHNO SCHOOL

10th and 12th CBSE Board: 91.8% and 82.8% respectively

Expected May 2026

CGPA - 8.24

Bangalore, Karnataka

2020 and 2022

WORK EXPERIENCE

AICTE MICROSOFT INTERNSHIP

May 2025 - June 2025

AI Azure Intern

- Built a Machine Learning Model for Breast Cancer Detection to efficiently distinguish between malignant and benign tumors using patient data (Wisconsin Dataset) with 98% Accuracy.
- Used KNN, Decision Trees, Logistic Regression and Gradient Boost algorithms to optimize the prediction using Azure.
- Using python and libraries like Scikit-Learn, Matplotlib, Seaborn and Exploratory data analysis (Cleaning and Processing).

PROJECTS

PREDICTING PERSONAL LOAN UPTAKE (for AllLife Bank Using Decision Trees)

Jan 2025

- Developed a Decision Tree model to predict loan acceptance among liability customers based on attributes like income, education, and product holdings with 94% accuracy.
- Performed data preprocessing, feature engineering and EDA and improved model performance using hyperparameter tuning, pre- and post-pruning and evaluated using recall and F1-score.

DIGITAL IMAGE FORGERY DETECTION

July 2025

- Developed a MobileNetV2-based model to detect image forgery, achieving 95% accuracy using transfer learning
- Performed error analysis and benchmarking against prior techniques.
- Used OpenCV, TensorFlow, Matplotlib and Seaborn for visualization, GoogleColab for building the model

VOICE-BASED CHATBOT FOR THALASSEMIA PATIENTS

June 2025 - Present

- Ongoing hackathon - The AI4Good
- Built a multilingual voice-based chatbot to support thalassemia patients and caregivers with daily symptom tracking and emotional check-ins.
- Uses NLP and sentiment analysis to generate health reports and flag high-risk cases for doctors.
- Built using Python, Seaborn, Hugging Face Transformers, Google Speech APIs, and Flask.

ACTIVITIES

JUVENILE CARE CLUB

Outreach and Management Head

VIT, Vellore

Feb 2025 – Present

- Organized and managed various outreach events with over 40+ members and various Fund Raisers.
- Served as a liaison, facilitating successful collaborations with over 10 organizations and hence an effective communicator.

ADDITIONAL

Technical Skills: Python, Data Science, Exploratory Data Analytics, Probability and Statistics, SQL, Model Selection, Tuning and Training, Deep Learning, NLP, Neural Networks and Java.

Libraries: PyTorch, TensorFlow, Keras, ScikitLearn and Seaborn.

Languages: English, Hindi and Kannada

Certifications & Training: Oracle Cloud Infrastructure Gen AI Professional, Deeplearning.ai Certification from Coursera Supervised, Unsupervised and Advanced Machine Learning Algorithms.

Tools/Technologies: Azure, Git and Hadoop

Interests: Love working on Neural Networks like MLPs, CNNs, Transformer models and automating repeating tasks.