ASHWITHA C

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EDUCATION

M.sc, Decision and Computing Sciences — **2023 - 2028**
Coimbatore Institute of Technology — Coimbatore, India
CGPA : 8.9775

SKILLS

HARDSKILLS

- Programming: Python, SQL, Machine Learning, Exploratory Data Analysis
- Data Visualization: Excel, Seaborn, Plotly, Matplotlib
- Tools and Technologies: GitHub, VS Code, Streamlit, Postman

SOFT SKILLS

- Analytical Thinking, Problem Solving, Data Interpretation, Communication, Teamwork

PROJECTS

Phishing URL Classification Using Machine Learning

Tools Used: Python, Streamlit, Scikit-learn, Pandas, Joblib

- Developed an ML application that predicts whether a URL is phishing or legitimate using features such as URL length, number of words, page rank, and website traffic.
- Performed data cleaning, EDA and built models such as Random Forest, Boosting, and SVM
- Evaluated multiple machine learning models using various metrics and identified XGBoost as the best model with 88.67% accuracy.
- Designed an interactive Streamlit dashboard allowing users to input a URL and view prediction.

Student Dropout Prediction System

Tools Used: Python, Pandas, NumPy, scikit-learn, XGBoost, Streamlit, Matplotlib

- Built an ML system that predicts student dropout risk using features like quiz scores, assignments, engagement level, and final exam performance.
- Applied data cleaning, preprocessing, and EDA before training models such as Logistic Regression, Random Forest, SVM, and XGBoost. Gradient Boosting achieved the highest accuracy with 81%.
- Built a simple Streamlit app where users can check dropout risk with inputs.

Financial AI & Analytics Platform

Tools Used: Python, yfinance, JAX, OpenAI API

- Developed a Streamlit-based platform for analyzing stock prices, option pricing, historical trends, and implied volatility
- Implemented analytical models including the Binomial Option Pricing Model and Newton–Raphson method for volatility estimation.
- Integrated APIs for real-time market data and added an AI-powered financial assistant for generating insights.

CERTIFICATIONS

- **Trainity :** Virtual Internship in Data Analytics (3 months)
- **Forage :** Data Analytics Visualization & Job simulation

ACHIEVEMENTS

- **LeetCode 50-Days Badge** – Solved problems consistently for 50+ days, including SQL and algorithm challenges
- **Research Publications:**
  "Smart Civic Complaint Analyzer Using Natural Language Processing" – IJRTI, 2025
  "Phishing URL Detection Using Machine Learning" – IJIRT, 2025