ASHWITHA C

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EDUCATION

M.sc Decision and computing Sciences — **2025 - present**
Coimbatore Institute of Technology — Coimbatore,India
CGPA : 8.69

INTERESTS

- Data Analysis, Web Development, Database Management,
- Cyber Security and Bug Hunting , Cloud Computing, Digital Marketing

SKILLS

HARDSKILLS

- Database**:** MYSQL, Oracle, Excel(Data Analysis)
- Languages**:** Python ,Java, HTML, C
- Developer Tools**:** Vscode., Jupyter Notebook, Intellij
- Security Tools **:** Kali Linux, Burpsuite , Wireshark,

SOFT SKILLS

Problem Solving , Analytical Thinking ,Teamwork , Communication , Quick learner

PROJECTS

Phishing URL detection using ML techniques

Tools used : **Python, Streamlit (UI)**

- Built ML-based phishing detection using EDA, PCA, and clustering and used Logistic Regression and LDA models for classification
- Integrated hypothesis testing (Mann-Whitney U Test) to identify key features and Developed user-friendly web interface with Streamlit
- Extracted features such as URL length, presence of HTTPS, and abnormal patterns and Achieved improved accuracy through feature engineering

Financial Application for option pricing and Risk assessment

Tools used: Python , Streamlit

- Designed a Python-based web application for financial analytics which supports option pricing for European and American options
- Implemented Newton-Raphson method for implied volatility calculations which provides live market data visualization with interactive charts
- Integrated AI-based assistant for financial insights and guidance and displayed historical trends for volatility and pricing analysis
- Enabled export of financial reports in PDF and CSV formats and designed dashboard with filter options for symbol, date range, and metrics

Ride Sharing System

Tools used: Python, Streamlit, Open Route Service API

- Developed a graph-based optimization system for smart ride-sharing which was implemented using BFS (Dijkstra's), Prim's, and TSP algorithms for optimal routing
- Visualized shared routes on interactive maps with real-time cost savings which enables dynamic addition of up to 5 passengers with trip optimization
- Calculated distance, travel time, and fuel cost reduction metrics and designed responsive Streamlit interface with map overlays and trip summaries

Customer Relationship Management

Tools used: Java, Mysql

- Built a desktop CRM application with Java Swing for customer & sales management and added login feature for Admin and Sales users
- Allowed adding and editing customer , sales, orders and transaction records and designed clean, modern UI with basic color themes
- Used MySQL to store and manage data and checks user input to avoid errors and the dashboard displays all essential information like customers, orders, employees, and transactions

CERTIFICATIONS

- **NPTEL :** Cyber Security and Privacy
- **Google** : Fundamentals in Digital Marketing
- **Trainity :** Virtual Internship in Data Analytics(3 months)
- **Forage :** Data Analytics Visualization and Job simulation