

KIRUTHICK R

+91 8122742785



kiruthickrn@gmail.com



Kiruthick-02



Kiruthick Ranganathan

EDUCATION

Coimbatore Institute of Technology

M.sc Decision and Computing Science (Integrated)

CGPA - NIL

2023 - 2028

Coimbatore

TECHNICAL SKILLS

Languages : JavaScript , HTML , CSS , Python , SQL

Web Development Frameworks : Flask , React.js , Tkinter

Developer Tools : VS Code , Oracle

Expertise : Front-end (UI/UX) Designer

PROJECTS

Shortest Path Ambulance Routing

Tools Used : Python (Flask), JavaScript, HTML/CSS, Leaflet.js, NetworkX, OSRM, OpenStreetMap

- Developed a web application to calculate and visualize the shortest ambulance routes to nearby hospitals in Coimbatore.
- Implemented and compared multiple routing algorithms to determine the most efficient path based on emergency conditions.
- Included features like hospital priority, capacity, emergency level selection, and interactive route comparison on a dynamic map.

Link: <https://kiruthick.pythonanywhere.com/>

Stock Market Analysis using Time Series Relational Model

Tools Used : Python , Pandas , Numpy , Statmodels , ARCH , Matplotlib , Seaborn , Jupyter Notebook

- Built a modular time series analysis system to forecast stock prices and volatility using historical financial data.
- Implemented ARIMA for price trend forecasting and GARCH for modeling return volatility with full evaluation and visualization.
- Automated preprocessing, stationarity checks, forecasting, and graph generation for easy interpretation and decision-making.

INTERESTS

- Web Development.
- App Development.
- UI/UX Designing.

CERTIFICATE

Full Stack web application - Coursera

SQL Intermediate - Hackerrank

Search engine Optimization (SEO) with Squarespace - Coursera