

# KIRUTHICK R

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 Kiruthick-02

 Kiruthick Ranganathan

## EDUCATION

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### Coimbatore Institute of Technology

M.sc Decision and Computing Science (Integrated)

2023 - 2028

CGPA - NIL

Coimbatore

## TECHNICAL SKILLS

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**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

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### 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

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

## CERTIFICATE

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**Full Stack web application** - Coursera

**SQL Intermediate** - Hackerrank

**Search engine Optimization (SEO) with Squarespace** - Coursera