

# MONISH KUMAR

COMPUTER SCIENCE STUDENT | PYTHON, DATA ANALYSIS & ML

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## SUMMARY

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Enthusiastic Computer Science student with strong Python fundamentals and hands-on experience in data analysis, statistical modelling, and machine learning. Skilled in AI-assisted development, automation, and building reliable, specification-driven solutions. Interested in applying Python and AI to real-world data problems.

## TECHNICAL SKILLS

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### Programming & Tools

Python, Java, JavaScript, Git, REST APIs

### Data & AI

Exploratory Data Analysis (Pandas, NumPy), Statistical Modeling (AR, MA), Machine Learning (XGBoost, regression models), Natural Language Processing (text preprocessing, TF-IDF)

### Engineering Practices

Model evaluation & validation, automation scripting, specification-driven problem solving, AI-assisted development workflows, Data Visualization

## PROJECTS

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**XGBoost Imbalance Handling:** Built a Python pipeline to optimize minority class predictions using Precision-Recall and ROC-AUC metrics. [[GitHub](#)]

**Stock Time Series Modelling:** Applied AR/MA techniques and stationarity checks to automate historical price forecasting. [[GitHub](#)]

**Full-Stack Web App:** Co-engineered a RESTful system using **Spring Boot** and **React** in a team environment, focusing on modular API integration and seamless frontend-backend synchronization. [[Link](#)]

## AI-DRIVEN WORKFLOW

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**Development:** Prompt-driven debugging, refactoring, and unit test generation.

**Strategy:** AI-assisted architectural analysis and edge-case validation.

**Ops:** Automated documentation and reproducibility using AI tools.

## EDUCATION

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**Bachelor of Engineering – Computer Science and Engineering**

*Sri Krishna College of Technology- Coimbatore*

Expected Graduation: 2027