

MONISH KUMAR

COMPUTER SCIENCE STUDENT | PYTHON, DATA ANALYSIS & ML

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SUMMARY

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

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

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

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

Bachelor of Engineering – Computer Science and Engineering

Sri Krishna College of Technology- Coimbatore

Expected Graduation: 2027