

MONISH KUMAR

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PROFESSIONAL SUMMARY

Aspiring AI Engineer with a focus on Generative AI and scalable backend systems. Experienced in building evaluation-driven ML pipelines (XGBoost) and full-stack applications (Spring Boot/React). Eager to apply **THRIVE** values to solve complex enterprise challenges through **LLMs** and **production-grade AI**.

TECHNICAL SKILLS

- **AI/ML & GenAI:** XGBoost, Time-Series (AR/MA), LLM-assisted workflows, ROC-AUC, Feature Engineering.
 - **Languages & Backend:** Python, Java (Spring Boot), C++, JavaScript, RESTful API Design.
 - **Web & Database:** React.js, MySQL, JWT Authentication, Git, Postman.
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PROJECTS

XGBoost Imbalanced Classification Pipeline | *Python, XGBoost, Scikit-learn*

- Engineered a high-performance ML pipeline specializing in minority-class detection.
- Optimized model generalization using **evaluation-first metrics** (ROC-AUC/Precision-Recall).

Stock Time-Series Forecasting System | *Python, Statsmodels, Pandas*

- Architected a statistical engine using **AR and MA models** for predictive stability.
- Automated stationarity testing and diagnostic workflows to minimize prediction variance.

Monastery360 (Smart India Hackathon 2025) | *React.js, Spring Boot, REST API*

- Developed a scalable web app integrating complex frontends with clean **REST API contracts**.
- Collaborated in an agile, team-driven cycle to solve real-world industry problem statements.

Full-Stack Gym Management System | *Spring Boot, React, MySQL*

- Implemented secure RESTful services and JWT-based authentication for enterprise-level security.
 - Optimized database synchronization and state management for high-concurrency environments.
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ENGINEERING STRENGTHS

- **Impact-Driven Development:** Focus on solving real-world challenges through AI.
 - **Ownership & Resilience:** Committed to taking ownership of projects from model to UI.
 - **Collaborative Mindset:** Experienced in high-pressure, team-oriented environments like SIH.
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EDUCATION

B.E. in Computer Science and Engineering | 2023 – 2027 (Exp.) **Current CGPA:** 7.98

Sri Krishna College of Technology, Coimbatore