

# Rohith Prem S

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## PROFESSIONAL SUMMARY

Aspiring Machine Learning and Full-Stack Developer passionate about architecting intelligent, scalable applications that transform raw data into actionable insights. Seeking to contribute to a dynamic organization by leveraging expertise in predictive modeling, robust backend systems, and intuitive frontend development to drive performance and real-world impact.

## EDUCATION

### Bachelor of Engineering in Computer Science *Saveetha Engineering College, Chennai*

Sept 2023 – May 2027

CGPA: 9.3/10.0

## EXPERIENCE

### Software Engineering Mentee

*IBM India Systems Development Lab (ISDL)*

Jan 2025 – Mar 2025

*Bangalore, Karnataka*

- Audited enterprise-grade software workflows across 3+ application modules, gaining deep insights into scalable system architecture and production deployment standards.
- Collaborated with senior engineers to refine model evaluation strategies for financial security tools, contributing to a reduction in false-positive classifications during testing phases.
- Engineered 5+ RESTful API endpoints to streamline data exchange between backend services and client interfaces, enhancing overall system reliability.

## PROJECTS

### Online Course Management System | *Java, Spring Boot, REST APIs, MySQL*

Dec 2024 – Jan 2025

- Architected a full-stack educational platform managing 100+ user profiles, facilitating seamless student registration, course enrollment, and instructor content management.
- Orchestrated robust backend logic across 10+ endpoints, implementing a layered architecture to ensure modularity, data persistence, and easier future scalability.
- Enhanced maintainability by strictly adhering to MVC design patterns, significantly reducing code redundancy.

### AI-Driven Inventory Optimization | *Python, Time-Series Forecasting*

Nov 2025 – Dec 2025

- Developed a predictive demand forecasting engine utilizing historical sales data spanning 1,000+ records to anticipate future product requirements.
- Leveraged time-series analysis (ARIMA/LSTM) to mitigate supply chain inefficiencies, projecting a potential 18% reduction in overstocking and stockout incidents.
- Visualized inventory trends to provide stakeholders with data-driven insights for improved operational decision-making.

### Ethereum Fraud Detection | *Python, Scikit-learn, Blockchain Analytics*

Sept 2024 – Oct 2024

- Analyzed a dataset of 10,000+ Ethereum transactions to engineer a machine learning classifier capable of flagging illicit activities.
- Optimized feature engineering techniques, resulting in a 15% improvement in model accuracy and precision compared to baseline logistic regression models.
- Constructed a reusable preprocessing pipeline to automate data cleaning and normalization, accelerating the model iteration cycle.

## ACHIEVEMENTS

- Winner (1st Place) at the national-level IBM Z Datathon 2024 for innovating a scalable data solution.
- National Top 4 Finalist at the prestigious ISRO–IIT Kharagpur Hackathon.
- Semi-Finalist in the L&T Techgium innovation challenge, selected among top national entries.
- Semi-Finalist at Flipkart GRiD 7.0, showcasing proficiency in robotics/software challenges.
- Earned the Oracle Database SQL Certified Associate (1Z0-914) credential.
- Runner-up in the QuizOnQuants mathematics competition at Saveetha Engineering College.
- Solved 200+ algorithmic problems on LeetCode, maintaining a strong consistency streak.

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, JavaScript, SQL

**Frontend:** React.js, HTML5, CSS3

**Backend & APIs:** Spring Boot, RESTful APIs, FastAPI

**Databases:** MySQL, Oracle SQL

**Machine Learning:** Scikit-learn, TensorFlow, Pandas, NumPy, Feature Engineering

**Data & Analytics:** Time-Series Forecasting, Data Preprocessing, EDA

**Tools & Platforms:** Git, Docker, VS Code, IntelliJ IDEA, Google Colab, Jupyter