

# Manne Sohini Amrutha Varshini

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SRM computer science undergraduate with machine learning engineering experience. competent in MLOps, GNNs, and NLP, with practical experience in financial misinformation detection, inductive graph learning, and real-time anomaly detection. competent in setting up scalable machine learning systems with feature stores, PyTorch Geometric, and Kafka. enthusiastic about streaming machine learning, explainable AI, and recommendation systems. Along the way, I solved over 300 LeetCode problems and acquired 6 Gold Badges on HackerRank to prove my algorithmic and problem-solving skills.

## EDUCATION

**B.Tech, Computer Science**, SRM Institute of Science and Technology

Graduating in July 2027

Relevant coursework: **Data Structures and Algorithms**, OOPs, OS, DBMS, **AI**, SERBOT.

CGPA: 8.93

## SKILLS

**Languages:** Python

**NLP & Text:** spaCy, FinBERT, SHAP, LIME, Transformers

**ML/DL Frameworks:** PyTorch, PyTorch Geometric, TensorFlow, scikit-learn

**Tools & Platforms:** Git, AWS, Jupyter, REST APIs

**Data & Visualization:** pandas, NumPy, NetworkX, Plotly, matplotlib

**Databases:** MySQL, PostgreSQL, SQLite

**Soft Skills:** Time Management, Teamwork, Problem-solving, Quick-Learner & Performer, Analysis

## PROJECTS

**AnomalyGuard**(Technologies Used: Python, Apache Kafka, Feast, BentoML, Isolation Forest, Streamlit) - [AnomalyGuard](#)

- An event-driven, end-to-end microservices architecture that can identify user anomalies in milliseconds by ingesting live Kafka streams.
- A reliable pipeline that solves training-serving skew for low-latency inference by utilizing a Feature Store (Feast) and Scalable Serving (BentoML)

**NeuroGraph**(Technologies Used: Python, PyTorch Geometric, GraphSAGE, NetworkX, Plotly) - [NeuroGraph](#)

- Enables real-time friend recommendations for new users without requiring model retraining by using GraphSAGE to address the recommendation "cold start" issue.
- Includes an interactive Streamlit inference dashboard, self-supervised GNN training, and data generation separated by a modular, production-grade architecture..

**FactLens**(Technologies Used: Python, XGBoost, FinBERT, SHAP, spaCy, Streamlit, Docker) - [FactLens](#)

- Developed an end-to-end machine learning system that uses XGBoost, FinBERT NLP, and real-time Yahoo Finance API verification across Twitter and Reddit data streams to detect financial misinformation on social media with 95% accuracy.
- Enhanced production Batch processing, automated risk scoring, and a streamlined dashboard with explainable AI (SHAP/LIME) to identify pump-and-dump schemes and false market claims.

## OTHER EXPERIENCE

Technical Member, ACM Student Chapter, SRMIST Chennai

Feb 2024 - present

Public Relations, Directorate of Student Affairs, SRMIST Chennai

Jan 2024 - March 2025

Challenges and Hackathons, AARUUSH, SRMIST Chennai

Aug 2023 - Sep 2024

## CERTIFICATIONS

**TCSION in collaboration with IITKGP** - AI for real-world Applications

**CISCO** – Python, Intro to Cyber Security

**Matlab** – Machine Learning, Deep Learning

**NPTEL** – Introduction to Machine Learning

**Google** - AI-ML (AICTE)

**AWS** - AI-ML (AICTE)

**Google** - Android Developer (AICTE)

## PARTICIPATIONS

- Secured a Top 25 position in the Hack Cosmos Hackathon, conducted by CSI at SRM University.
- Participated in CreaTech 2024, a national-level Technology Innovation Contest organised by Larsen & Toubro.
- Participated in Flipkart Runway Season 5, a career acceleration program for women in engineering.
- Participated in Idea Spark, organized by the Founders Club at SRM University