SREEDEV SURESH

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PROFILE

Third-year Computer Science undergraduate (CGPA 9.94) at TKM College of Engineering with hands-on research experience in Topological Data Analysis at CVIT, IIIT Hyderabad. Passionate about applying machine learning, deep learning, and data-driven methods to real-world problems. Strong mathematical foundation backed by NPTEL certifications from IISc and IIT Madras, and active leadership in IEEE and Google developer communities. Seeking a Data Science & Analytics internship to contribute to impactful, research-oriented projects.

EDUCATION

B.Tech — Computer Science & Engineering | TKM College of Engineering, Kollam *2024 – 2028*
CGPA: 9.94 (Sem 1,3 SGPA: 10.00) | CBSE Class XII: 95.4% | CBSE Class X: 98.6%

EXPERIENCE

Research Intern | Centre for Visual Information Technology (CVIT), IIIT Hyderabad *May 2026 – Present*
Supervisor: Prof. Dr. Raghavendra G S | Domain: Topological Data Analysis (TDA)

- Applying Topological Data Analysis (persistent homology, Mapper) to extract structural features from high-dimensional visual data.
- Building TDA pipelines for pattern recognition tasks, bridging algebraic topology with practical ML workflows.

Python Development Intern | Cognifyz Technologies *June 2025 – July 2025*

- Developed and tested Python scripts focused on algorithmic problem solving and practical software development workflows.

PROJECTS

Smart Adaptive Lighting System | *YOLOv8, OpenCV, Flask, React, Tailwind CSS*

- Built a real-time traffic detection pipeline using YOLOv8 and OpenCV to dynamically control street lighting intensity and trigger emergency collision alerts.
- Designed a React / Tailwind CSS dashboard for live traffic analytics, safety metrics, and system performance monitoring.

Thanal — Digital Platform for Parents of Autistic Children | *JavaFX, Google Firebase*

- Implemented secure role-based dashboards with authentication for parents, doctors, and autism support communities.
- Built patient behaviour tracking tools, community blogs, Q&A forums, and consultation request management.

TECHNICAL SKILLS

Languages: Python, C, Java
AI / Data Science: Machine Learning, Deep Learning, Computer Vision, Topological Data Analysis (TDA), Data Mining
Tools & Frameworks: YOLOv8, OpenCV, Flask, React, Firebase, HTML/CSS
CS Fundamentals: Data Structures & Algorithms, Object-Oriented Programming, DBMS, Computer Networks, Operating System, Discrete Mathematics

CERTIFICATIONS

Foundations of Deep Learning: Concepts and Applications — IISc Bangalore (NPTEL) *2026*
Mathematical Foundations for Machine Learning — IISc Bangalore (NPTEL) *2025*
The Joy of Computing using Python — IIT Madras (NPTEL) *2025*

LEADERSHIP & ACTIVITIES

Vice Chairman, IEEE Computer Society Student Branch Chapter, TKM College of Engineering *Jan 2026 – Present*
Google Student Ambassador 2026 *May 2026 – Present*