

# Rogit S

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Department of Computer Science and Engineering

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## EDUCATION

### • Bachelor of Technology in Computer Science and Engineering

2022 - 2026 (Expected)

SRM Institute of Science and Technology, Ramapuram

CGPA: 9.31

## EXPERIENCE

### • Kalvium

July 2025 - September 2025

Founder's Office Intern - Enterprise Strategy and Market Intelligence

Bangalore

- Analyzed potential industry verticals and **built a qualified pipeline of 700+ potential enterprise partners**, prioritizing prospects based on growth potential and alignment with Kalvium's services.
- **Secured 8 new enterprise partnerships** by managing the end-to-end business development cycle, from market analysis, outreach to deal closure.

### • Acetech Group

June 2024 - July 2024

Data Analytics Intern

Chennai

- Automated KPI reporting by engineering a real-time Tableau dashboard that **aggregated data from 15+ APIs, eliminating 16-18 hours** of weekly manual data collection and transformation.
- Engineered **Python-based data ingestion pipelines** for multiple sources into an AWS S3 Glacier data lake, creating a highly reliable data archive.

### • Profisolutions Private Limited

June 2024 - July 2024

Automation and Analytics Intern

Chennai

- Developed an **automated monitoring workflow** for PLC-SCADA systems, using Python and PostgreSQL to **cut incident detection and diagnosis time**.
- **Modernized 3 legacy calculation tools** by migrating the core logic from PL/SQL to Python, enabling them to be deployed across multiple new platforms and systems.

### • SRM Sketch - Technical Club

Jan 2024 - April 2025

Domain Leader - Research and Development

Chennai

- Spearheaded a **15-member team** in executing **20+ knowledge-sharing workshops**, bolstering peer skill development while overseeing all internal club operations.

## PERSONAL PROJECTS

### • PlaynTrack - Live Sports Analytics

Python, FastAPI, OpenCV, FFmpeg, YOLOv8, TensorFlow, SORT, PostgreSQL, Matplotlib, AWS EC2

- Engineered a **real-time data pipeline** leveraging OpenCV, YOLOv8, and SORT for precise player and ball tracking, alongside TensorFlow for object and speed calculations.
- The solution was deployed with Streamlit, FastAPI and PostgreSQL on AWS EC2, ensuring on-demand scalability.

### • Automatic Number Plate Recognition

Python, Numpy, Pandas, TensorFlow, OpenCV, Matplotlib, YOLOv8

- Designed and developed a near real-time ANPR system utilizing YOLOv8 and PostgreSQL, achieving **94% accuracy** and **65ms latency** for identification.
- Architected a logging system in Python to process and log detection events into a PostgreSQL database, enabling historical analysis and real-time access validation.

### • SysInfo - Telemetry Observer

Python, WMI, Win32 API, Socket, PostgreSQL

- Developed a **lightweight telemetry agent** in Python using WMI and Win32 APIs to **capture real-time system metrics** (CPU, memory, disk, network, driver details) with **minimal performance overhead**.
- Architected the backend to securely stream and log metrics to PostgreSQL, creating a structured historical dataset for efficient troubleshooting and performance trend analysis.

## RESEARCH

### • Enhanced Neural Style Transfer using VGG-19 and Gram Matrix Computation

FMDB Transactions on Sustainable Computing Systems - DOI: 10.69888/FTSCS.2025.000376

- Developed and benchmarked **VGGram**, a Neural Style Transfer model, **against four leading architectures** (MobileViT, ResNet-50, EfficientNet-B0, Swin Transformer) to evaluate stylization quality and computational efficiency.
- Demonstrated VGGram's superior performance, achieving the highest Structural Similarity (SSIM) of **0.742** and Peak Signal-to-Noise Ratio (PSNR) of **23.8 dB**, validating its effectiveness in generating high-fidelity artistic images.

## **TECHNICAL SKILLS AND INTERESTS**

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**Languages:** Python, SQL

**Tools and Frameworks:** Microsoft and Google Suite, MongoDB, Numpy, Pandas, PostgreSQL, Pytorch, Scikit-Learn, Tableau, Tensorflow

**Areas of Interest:** Agentic AI, Artificial Intelligence and Machine Learning, Business Analytics, Business Intelligence, Data Engineering, Data Science, Predictive Analytics, Statistical Modelling.

**Soft Skills:** Attention to Detail, Competitiveness, Critical Thinking, Data Driven Decision-making, Leadership.