

Yashas M N

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EDUCATION

R.V. College of Engineering

B.E. in Computer Science and Engineering (Cyber Security) | CGPA: 8.74

Bengaluru, Karnataka

Jun 2023 – Present

Poornaprajna Pre-University College

Physics, Chemistry, Mathematics, Computer Science – 96.67%

Admar, Udupi, Karnataka

2022 – 2023

TECHNICAL SKILLS

Languages: C++, C, Python, JavaScript, TypeScript, SQL

Backend & Web: Flask, REST APIs, React, Next.js, PostgreSQL, SQLite, SQLAlchemy

AI/ML: PyTorch, TensorFlow, scikit-learn, NumPy, Pandas

Systems & Tools: Git, GitHub, SUMO, TraCI

Core CS: Data Structures & Algorithms, DBMS, Operating Systems, Computer Networks, Blockchain Technology

PROJECTS

SnapFix – AI-Powered Civic Management | [🔗 Link](#)

Lead Developer

- Created a Flask-based civic reporting platform integrating REST APIs, Telegram Bot API, PostgreSQL/PostGIS, and web dashboards to support complaint submission, routing, tracking, and resolution.
- Designed a dual-model AI inference pipeline combining **MobileNetV2** with **TF-IDF + Logistic Regression** and applying late-decision fusion to classify reports, assign priorities, and route them to departments.

Sentinel – Continuous Behavioral Authentication | [🔗 Link](#)

Developer

- Engineered a real-time behavioral authentication system that captures keyboard, mouse, and scroll telemetry, extracts a **37-dimensional feature vector**, and serves anomaly predictions through a Flask API.
- Applied **Isolation Forest** and EMA-based trust smoothing to enforce adaptive **Full/Step-Up/Restrict/Lock** access policies, with credentials protected by Argon2id.

Golden Hour – Emergency Traffic Corridor | [🔗 Link](#)

Team Lead

- Designed an emergency routing platform powered by **Ant Colony Optimization (ACO)** over a traffic-weighted graph accounting for distance, speed, congestion, and pheromone state.
- Connected **SUMO/TraCI** to Flask APIs to synchronize vehicle states, simulate traffic conditions, and dynamically establish emergency corridors.

NebulaVerse – Decentralized Software Marketplace | [🔗 Link](#)

Team Lead

- Built a decentralized digital-goods marketplace featuring a custom **Proof-of-Work blockchain**, Flask gateway, transaction mempool, miner peer, and Next.js/React frontend.
- Added **RSA wallet signing**, **SHA-256 integrity verification**, **P2P miner discovery**, and **Docker-isolated code execution** before blockchain validation.

PrivWatch – Privacy-Preserving Video Anomaly Detection

Lead Developer

- Developed a video anomaly-detection pipeline combining **MobileNetV2 + LSTM** for spatiotemporal classification of Normal, Fight, and Collapse activities.
- Implemented a transient **Sterile Room** with bounded RAM buffers, short-lived inference workers, memory cleanup, and event-only persistence to minimize raw-video retention.

ACHIEVEMENTS & LEADERSHIP

Leadership: Led major technical projects, directing system architecture, delegating tasks, and driving end-to-end deployment.

Community Leadership: Guided a team in the Campus to Community (C2C) program, delivering educational outreach to underprivileged students in rural government schools.

Public Relations: Served as PR Head at Kannada CARV, managing outreach, communications, and promotional initiatives.

CERTIFICATIONS

NPTEL Certification: Data Science for Engineers

NPTEL Certification: Knowledge Management

HackerRank Certification: Software Engineering Role

HackerRank Certification: SQL (Intermediate)