SUSHANTH R ACHARYA

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Training & Internships

Industrial Training – PYTHON [AI/ML] Intern (Internz Lean, 6 Weeks)

- Gained hands-on experience in software development lifecycles and data processing using Python.

- Built an insurance fraud detection model using XGBoost and Random Forest; optimized performance using SMOTE to resolve data imbalance.

PROJECTS

YOLO: Public Safety Crowd Surveillance (Final Year)

- Developed a real-time crowd surveillance system using YOLO v4 and OpenCV. Achieved 90% detection accuracy for social distancing violations and restricted zone monitoring, visualized via a Streamlit dashboard.

- Tech Stack: Python, YOLO, OpenCV, Streamlit.

Telemedicine Integration for Ambulance (Societal Project)

- Implemented WebRTC to enable low-latency (<200ms) live video streaming between ambulances and hospitals for pre-arrival diagnosis.

- Tech Stack: React, Node.js, MongoDB.

Personal Expenses Tracker (Mini Project)

- Built a GUI using Tkinter to track daily spending and visualize budget data.

- Tech Stack: Python, Matplotlib, Pandas, NumPy, Tkinter.

EDUCATION

MCA – Computer Science

Visvesvaraya Technological University CPGS Mysuru, Visvesvaraya Technological University, Year: 2024-2025 | CGPA: 8.35.

BCA – Computer Applications

Mahatma Gandhi Memorial Degree College Kushalnagar, University of Mangalore, Year: 2020-2023 | CGPA: 7.74.

PROFESSIONAL SUMMARY

MCA Graduate (2025) specializing in Full Stack Web Development and Python-based AI/ML solutions. Experienced in building scalable web applications, real-time computer vision systems, and data-driven tools using MERN stack, Python, and modern frameworks. Strong foundation in Data Structures, APIs, databases, cloud concepts and software engineering best practices. Actively seeking a Software Engineer or Full Stack Developer role to contribute to high-impact, production-ready systems.

SKILLS

- **Web Technologies:** Java, Node.js, HTML5, CSS3.
- **Frameworks & Libraries:** React.js, OpenCV, Streamlit, Pandas, NumPy, Matplotlib, Tkinter.
- **Databases:** MongoDB, MySQL.
- **Tools & Platforms:** Git, GitHub, Postman, VS Code.
- **Programming:** Python, Object-Oriented Programming (OOP), DSA.

Certifications

- Line Follower Robot – Completed mini project on IOT at Visvesvaraya technological University Mysuru – 2025.

- Python AI/ML Industrial Training – Internz Lean, Mysuru – 2025.

- Ethical Hacking – Honors, Minors, Certificate and Skill Enhancement Courses VTU Centre for Online Education, Mysuru – 2025.

Additional Engineering Experience & Cloud Interest

- Experience integrating RESTful APIs and building CRUD-based full stack applications.
- Proficient with Git, GitHub, version control workflows, and collaborative branching strategies.
- Knowledge of software testing, debugging, performance optimization, and secure coding best practices.
- Strong interest in Cloud Computing (AWS) with hands-on learning in EC2, S3, IAM, and deployment concepts.
- Comfortable working in fast-paced environments, and cross-functional collaborations.

Languages Known

- Kannada, English, Hindi.

Soft Skills

- Problem Solving, Communication, Team Collaboration, Fast Learner, Time Management.