UMA G S

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PROFESSIONAL OBJECTIVE

Aspiring Data Engineering & AI Engineer with strong foundations in Python, SQL, Data Structures, Machine Learning and Data Pipelines. Hands-on experience building end-to-end ML applications, data preprocessing pipelines, Flask microservices and IoT-based automation systems. Passionate about solving real-world problems using data-driven insights, cloud-native tools, and scalable AI solutions.

EDUCATION

Don Bosco Institute of Technology, Kumbalgodu Jul 2022 - Jun 2026
Bachelors of Engineering in Computer Science and Engineering Bengaluru
8.61 CGPA
Relevant Courses: C Programming, Python Programming, Data Structures & Algorithms, Machine Learning

Excel PU College Jul 2021 - Apr 2022
Pre-University College Dakshina Kannada
Percentage 94.3
Physics, Chemistry, Mathematics, Biology

SKILLS

- Programming Languages: C, Python, C++
- Technical Skills: SQL
- Web Technologies: HTML, CSS
- Frameworks & Tools: Git/GitHub
- Data Visualization & ML Tools (Basics): NumPy, Pandas, Matplotlib, Seaborn
- Soft Skills: Team Collaboration, Communication, Logical Thinking, Problem-solving

PROJECTS

Automated Kidney Disease Detection System June 2025 – Nov 2025

- Built a Python-based ML system to detect kidney disease from patient data with over 90% accuracy.
- Implemented data preprocessing, feature selection, and model training using Random Forest and SVM algorithms.
- Developed a Flask web app for real-time predictions, improving diagnostic efficiency and accessibility**.**

Air Canvas using OpenCV and NumPy Apr 2024 – Jan 2025

- Developed an interactive Air Canvas application using OpenCV and NumPy that allows users to draw in the air using hand gestures tracked via webcam.
- Implemented colour detection and contour tracking algorithms for real-time gesture recognition and smooth drawing performance.
- Optimized frame processing for minimal latency, enhancing drawing accuracy and user experience.

Samsung Innovation Campus –IoT Mar 2024 – Apr 2025

- Worked on building IoT projects like Industry Safety Monitoring System and built a web application where Industry Safety can be monitored from anywhere.
- Built a sensor-driven industrial monitoring system integrating IoT hardware with web dashboard.

CERTIFICATIONS

- Artificial Intelligence & Machine Learning Foundations
  TNS India Foundation
  Certified in Machine Learning and Artificial Intelligence
- TechA Computer Vision Certification
- Database Management System Certification