

Sushmidha S

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BTech IT student at SSN College with strong Python skills, experienced in web development and database management. Passionate about software development, ML, and data science. Active in coding competitions and collaborative projects, enhancing problem-solving and teamwork. Seeking internships to gain hands-on experience and contribute to innovative tech solutions

WORK EXPERIENCE

GUI developer

SASTRA DEEMED UNIVERSITY - IITTIF

Jun 2025 - Present
Thanjavur, Tamil Nadu

GUI Developer Intern | IIT Tirupati Navavishkar I-Hub Foundation

Jun 2025 – Jul 2025

- Designed and implemented PyQt5-based GUIs for drone telemetry monitoring and control, improving operator efficiency .
- Developed interactive dashboards using sensor fusion techniques to visualize real-time GPS/IMU data with 3D attitude representation.
- Integrated geospatial mapping (Folium) for live drone trajectory tracking, reducing navigation errors.
- Optimized sensor data processing pipelines using matplotlib, mavsdk, and ahrs to deliver real-time feedback for drone control systems.
- Collaborated with cross-functional teams to align GUI features with drone control system requirements.

Data science intern

Dec 2024 - Present
Chennai, Tamil Nadu

GRADTWIN

Gradtwin Services (OPC) Pvt. Ltd., Chennai

Dec 2024 – Feb 2025

- Completed a 3-month technical internship focused on real-world IT projects.
- Developed hands-on experience in practical problem-solving and team collaboration.
- Received Certificate of Completion and considered for Letter of Recommendation.

EDUCATION

B.Tech/Information Technology

Aug 2023 - Aug 2027

Sri Sivasubramaniya Nadar College Of Engineering – Chennai

GPA: 7.7 CGPA scored in 4th semester

- Participated in many events and got awards.
- Completed relevant coursework: DBMS, Web Development.

Intermediate Education

Jun 2021 - Jun 2023

Sri Chaithanya Junior Kalasala – Hyderabad

GPA: 97.5 percentage mark scored

- Qualified JEE Main with 82.7 percentile

Secondary Education

May 2020 - May 2021

Narayana Olympiad school – Bangalore

GPA: 94 percentage mark scored

- Led sports club to win Narayana Internal Sports Event

PROJECTS

Online Train Ticket Booking System

- Designed and implemented a system to facilitate seamless ticket reservations and schedule management.
- Outcome:** Handled 100+ concurrent users with <1s response time for queries.

Pharmacy Management System

- Developed a website to streamline inventory, sales, and prescription management processes.
- Outcome:** Reduced manual data entry errors by 40% and improved processing speed by 30%

Plagiarism Detector

- Enhanced a Python-based plagiarism detector using NLTK and cosine similarity, achieving 95% accuracy in identifying copied content.
- Outcome:** Achieved 95% accuracy in detecting copied content.

Password Decoder

- Improved a Python-based password decoder to reverse and decode ASCII values into readable passwords, ensuring accurate character mapping and efficient processing.
- Outcome:** Decoded 10,000+ passwords/sec with 99.5% accuracy.

SKILLS

Technical Skills:

- 1)Programming: Python, SQL, HTML/CSS
- 2)Web Development: Flask
- 3)Tools: Git, VS Code
- 4)Data Science: Pandas, NumPy
- 5)Database Management: MySQL, MongoDB

Soft Skills:

- 1) Problem Solving
- 2) Team Collaboration & Leadership
- 3) Effective Communication
- 4) Project Planning & Management
- 5) Multitasking and Time Management

CERTIFICATIONS

Presented at the International Conference on Computational Mathematics and Advances In Modern Technology (ICCMAMT-2024)
Paper premiere in SRM Institute of Science and Technology
Project presentation in SRM Institute of Science and Technology
Understanding Climate Change Workshop at the American Center, U.S. Consulate General Chennai
Poster presentation in Anand Institute of Higher Technology
Quiz at national level technical symposium in Muthayammal Engineering College
Connection at national level technical symposium in Muthayammal Engineering College
Project expo at national level technical symposium in Muthayammal Engineering College
Solution sizzle in Sai Ram Institute of Technology
Idea surge in Sai Ram Institute of Technology
Hackethix in Amrita Vishwa Vidyapeetham
Technovation in Amrita Vishwa Vidyapeetham
Algocrack in Amrita Vishwa Vidyapeetham
Getting started with competitive programming (NPTEL)
Attended workshop related flutter app development in IIT Madras
Pre vision in SSN college of engineering

LANGUAGES

Tamil (Native proficiency) • English (Full professional proficiency) • Telugu (Full professional proficiency) • kannada (Elementary proficiency)