

# Sanjana Suresh

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## SUMMARY

I am a Computer Science Engineering student with strong skills in data engineering, analytics, and full-stack development. Experienced in building web applications (Flask, Django, React) and managing databases (MySQL, MongoDB). Skilled in Python, SQL, Tableau, and Docker, with a focus on delivering scalable, data-driven solutions.

## PROJECTS

### • Margnify – A Smart Tour Guide

Jan 2025 – Present

Technologies: Flask, Leaflet.js, OpenStreetMap API, BeautifulSoup, Scrapy, NetworkX, HTML, CSS, JavaScript, Python



- Developing a smart tour guide web application to assist users in navigating heritage sites with personalized routes and landmark information.
- Integrating OpenStreetMap and Leaflet.js for real-time map rendering and using NetworkX to compute shortest paths with Dijkstra's algorithm.
- Building web scraping modules using BeautifulSoup and Scrapy to fetch historical and visitor-related data dynamically from tourism websites.
- Implementing dynamic location detection and interactive backend logic for user-selected landmark routing and optimized tour planning.

### • Multi-Factor Authentication System

Sep 2024 – Dec 2024

Technologies: Django, Python, MySQL, JWT, DeepFace, HTML, CSS, JavaScript, PIL



- Designed a secure multi-factor authentication system combining password hashing, session-based token validation, and facial recognition.
- Implemented a Django-based backend for user authentication, securely stored passwords using PBKDF2, and managed sessions via JWT.
- Integrated DeepFace for facial verification, enabling biometric authentication as a second factor alongside traditional credentials.
- Developed a secure password reset mechanism using refresh token validation and token expiry logic.
- Built frontend interfaces with HTML/CSS/JavaScript, incorporating camera input for facial authentication and dynamic validation prompts.

## EDUCATION

### • RNS Institute of Technology

2022 – 2026

Bachelor of Engineering in Computer Science ( CGPA: 8.21 / 10)

Bengaluru, India

### • Jain College ( Grade: 80%)

April 2022

Pre-University Education

Bengaluru, India

## SKILLS

- **Programming Languages:** Python, Java, C, C++
- **Frontend:** HTML, CSS, JavaScript, React
- **Backend:** Flask, Django, PHP
- **Databases:** MySQL, MongoDB
- **Data & Analytics Tools:** SQL, Pandas, NumPy, Tableau
- **Tools & Cloud:** Git, Docker

## CERTIFICATIONS

### • Data Structures and Algorithms using Python

July 2024

Infosys Springborad

### • Database Management System

June 2024

Infosys Springborad

### • Introduction to DevOps

April 2025

Great Learning

### • OpenAI Generative Pre-trained Transformer 3 (GPT-3) for developers

November 2024

Infosys Springborad