

# Vaishnavi Shridhar

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## Education

**DJ Sanghvi College of Engineering, B.Tech in Computer Science and Engineering (Data Science)** Oct 2022 – Present

- Current CGPA: 9.63 | SGPA: 9.86 and Honours student in Computational Finance

## Experience

**AI/ML Intern, SwasthMind – Mumbai, India** Jun 2024 – Aug 2024

- Engineered various NLP algorithms to understand user intent and emotions, tailoring solutions for different age groups and their specific challenges by analyzing over 10,000 interactions and improving effectiveness by 10%.
- Constructed algorithms that convert multilingual audio conversations into text, facilitating training for the chatbot.

## Projects

**NakshaGyaan | On-device Semantic Segmentation of WMS Services** 🔄 Nov 2024 – Dec 2024

- Built an interactive, fully client-side semantic segmentation pipeline for satellite imagery using Sentinel-2, ONNX, TensorFlow.js, and OpenCV.js.

- Trained a custom UNet deep learning model from scratch, achieving a 0.91 Dice coefficient for high-accuracy segmentation and implemented seamless data export in GeoJSON/KML formats for GIS integration, enabling real-time geospatial analysis.

**EarthWatch | Real-time Climate Data Dashboard** Oct 2024 – Nov 2024

- Executed a real-time climate data pipeline, integrating Kafka, AWS S3, Prefect, and Snowflake for efficient ETL processing.
- Developed an interactive real-time Tableau dashboard connected to Snowflake, allowing advanced querying.

**EcoSphere | Intelligent Sustainable Event Planner** Nov 2024 – Nov 2024

- Crafted an adaptive event layout generator using GANs, optimizing event spaces based on user preferences and sustainability constraints.
- Built a conversational assistant using LangChain and Cohere, providing sustainable and inclusive event-planning guidance and developed a dynamic Next.js frontend for a seamless user experience, ensuring mobile-friendly accessibility.

**Lokly | Smart Social Media Manager** Oct 2024 – Oct 2024

- Designed an automated social media management platform integrating Pollination AI, Flux, and Meta Graph API for scheduled posts and sentiment analysis.
- Utilized Google Trends API and Prophet to provide predictive analytics for content trends and engineered a localized content generation system to tailor posts based on regional preferences and cultural nuances.

## Skills

**Programming Languages:** C, C++, Python, Java, JavaScript

**Data Science & Machine Learning:** Scikit-learn, Pandas, Numpy, TensorFlow, Image Processing, Computer Vision, PyTorch, NLP, Scraping, LangChain, Probabilistic Graphical Models, Tableau, ONNX

**Web Development:** Flask, HTML, Javascript, Node.js, TensorFlow.js, OpenCV.js

**Databases:** SQL, MongoDB, Snowflake, AWS S3

## Awards

**Smart India Hackathon Grand Finalist, Govt. of India - ISRO** Dec 2024

**First Prize Winner of "GHCI Hackathon 2024", Anita B.org India** Nov 2024

## Extracurricular

**DA & ML Lead, DJS Compute - Mentor-Mentee Committee** Jul 2024 – present

**Software Head, DJS Arya - Canister Satellite Making Team** Jun 2024 – present

## Courses

**AWS Academy Data Engineering, AWS Academy Graduate** 🔄