SWETHA

ASPIRING DATA SCIENTIST | PYTHON | MACHINE LEARNING | DATA ANALYSIS

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CAREER SUMMARY

Aspiring Data Scientist (8.4 CGPA) with expertise in Python, SQL, and Machine Learning. Developed a Multimodal AI system for disease detection integrating X-ray, MRI, and EHR data using Scikit-learn and predictive modeling. Kaggle Bronze Medalist recognized for excellence in data cleaning and exploratory data analysis (EDA). Proven track record of delivering interactive Power BI dashboards and actionable insights for datasets exceeding 8,000 records.

EDUCATION AND CERTIFICATION

Maharaja Institute of Technology, Mysore   **DEC 2022 – Present**
BE in Computer science and engineering (Data Science) @VTU
Guru Nanak Independent PU College, Bidar   **AUG 2020 – JUN 2022**
Pre-University Course
Guru Nanak Public School, Bidar   **JUL 2019 – JUL 2020**
Secondary School (SSLC)

TECHNICAL SKILLS

Programming & Data Science: Python (Pandas, NumPy, Scikit-Learn) | SQL (MySQL, PostgreSQL) | Machine Learning & Predictive Modeling | Deep Learning | Exploratory Data Analysis (EDA)
Databases & Web Development: MongoDB | pgAdmin (PostgreSQL) | HTML5 | CSS3 | JavaScript (Basic UI Design)
Data Visualization & Reporting: Microsoft Power BI (Interactive Dashboards) | Tableau | Streamlit | MS Excel
Tools & Platforms: VS Code | Jupyter Notebook | Google Colab | Kaggle (Bronze Medalist) | GitHub

WORK EXPERIENCE

Software Development Intern | Getskilled (GyaanKool Research Labs)   **SEP 2024 - JAN 2026**

- Developed and optimized AI-driven backend modules using **Python and Flask**, increasing system processing efficiency for research datasets by **15%**.
- Collaborated on the implementation of **Machine Learning pipelines** for data preprocessing, ensuring **98% data accuracy** for downstream predictive modeling.
- Conducted rigorous debugging and code reviews for internal software tools, reducing deployment-ready error rates by **10%**.

PROJECTS

[SMART AI: Multimodal Early Disease Predictor](#)   **AUG 2025- JAN 2026**

- Developed an ensemble ML pipeline (**RF, XGBoost, LightGBM, SVM**) achieving **97.6% accuracy** in classifying 42 diseases from 132 symptoms.
- Integrated **YOLOv11** and **Keras ResNet-50** for real-time dermatological screening, reaching **94.2% accuracy** in acne severity detection.
- Engineered a dual-engine **OCR system (EasyOCR/Tesseract)** to automate medical report data extraction with **100% integrity**.

- Implemented **HMAC-SHA256 cryptographic protection** and **Google OAuth 2.0** for secure, HIPAA-compliant doctor authentication.

Bug Drawer: Professional Bug Tracking System   DEC 2025- JAN 2026
- Engineered a full-stack project management and bug tracking system using Python (Flask) and SQLite, featuring OAuth 2.0 integration for secure Google and GitHub authentication.
- Developed a robust Role-Based Access Control (RBAC) system (Admin, Manager, Developer) to manage bug lifecycles, including full CRUD operations, task assignments, and priority tracking.
- Designed a responsive, theme-aware UI with persistent Dark/Light modes, implementing secure file upload handling and threaded comments for real-time team collaboration.
- Implemented secure backend practices including password hashing, session management, and protection against SQL injection and XSS to ensure data integrity.

Musafir Not Bhatak: AI Travel Itinerary Planner   DEC 2025- JAN 2026
- Engineered a full-stack travel planner using **React.js** and **LLMs (Llama-3.1 via Groq/Google Gemini)** to generate personalized itineraries.
- Integrated **Leaflet.js** and **OpenStreetMap API** with a custom routing machine to visualize multi-stop trips and optimal travel paths.
- Developed a responsive UI featuring **Tailwind CSS** and **shadcn/UI**, enabling interest-based filtering and real-time budget tracking.
- Implemented local state persistence and secure browser-side API key management to ensure user data privacy and low-latency performance.

Data Analytics Portfolio | *Collective Repository*   JUN 2025- JULY 2025
- **Amazon Sales:** Built a **Power BI** dashboard analyzing **8000+** records to identify a **68% seasonal growth trend** and optimize inventory.
- **Swiggy Analysis:** Processed delivery data using **SQL and Python** to visualize peak-hour demand, providing actionable consumer behavior insights.
- **Kaggle Achievement:** Ranked in participants in the Red Teaming Dataset Challenge to earn a **Bronze Medal**.

PROFESSIONAL DEVELOPMENT

Artificial Intelligence Fundamentals| IBM, IBM Skills Build	NOV 2025
Introduction to Data Science | Cisco Networking Academy	DEC 2024
Deep Learning | be10x	SEPT 2025
Power BI | Office Master	OCT 2024

ACHIEVEMENTS

- **Kaggle Bronze Medalist:** Ranked in the **top competitors** in the Red Teaming Dataset Challenge, identifying critical vulnerabilities in AI datasets.
- **HackFusion 1.0** & **Hack4Mysore** Volunteer: Actively coordinated logistics and participant support for **two 24-hour national-level hackathons**, facilitating a seamless experience for over **1000+ attendees**.
- **NSS Volunteer & Educator:** Spearheaded educational outreach for high school students, delivering career guidance and awareness campaigns on **Environmental Sustainability** and **Women's Empowerment.**
- **Technical Event Anchor:** Served as the primary stage anchor for college technical and cultural fests, managing audience engagement and scheduling for large-scale events with **500+ attendees**.