

Swastik Madhav Kulkarni

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EDUCATION

Sreyas Institute of Engineering and Technology

B.Tech.in Computer Science (Artificial Intelligence and Machine Learning)

Oct 2020 – July 2024

Hyderabad, Telangana

EXPERIENCE

Associate Software Engineer - Trainee

Mar 2025 – Jun 2025

Mphasis Limited

Pune, Maharashtra

- Completed intensive training in **Unix**, **Power BI**, **T-SQL**, **MongoDB**, and **Azure**, accelerating deployment skills by **30%** and maintaining scores consistently above **90%** in lab assessments.
- Engineered a comprehensive **Hospital Management System** using **Core Python** and **MySQL** to streamline patient data processing, doctor allocation, service management, and automate medical billing workflows.
- Created a dynamic **Retail and Sales Dashboard** in **Power BI** to analyze and boost actionable sales insights and decision-making speed by **25%**.
- Automated reporting and KPI visualization using **DAX** with multi-source integration, reducing manual reporting time by **50%**.

Assistant System Engineer - Trainee

Aug 2024 – Oct 2024

Tata Consultancy Services

Hyderabad, Telangana

- Provisioned and configured **Windows/Linux servers** on **Hyper-V** for enterprise-grade simulation environments, improving virtualization efficiency.
- Diagnosed and resolved complex **network and OS issues**, increasing overall system availability by **20%**.
- Implemented robust **virtualization strategies** and conducted OS maintenance to ensure uptime and security compliance.

Web Developer - Intern

Apr 2024 – Aug 2024

RedCloud Technologies

Hyderabad, Telangana

- Developed responsive **e-commerce websites** using **Shopify** and **WordPress**, enhancing customer engagement by **30%**.
- Integrated secure **payment gateways** and third-party plugins to improve transaction security and customer trust.
- Automated product uploads with custom **Python scripts**, saving over 10 hours weekly.
- Enhanced **UI/UX** using insights from **Google Analytics** and A/B testing, reducing bounce rates by **22%**.

PROJECTS

Slot Booking for Vehicle Parking

Nov 2023 – Feb 2024

Python, Flask, Flutter, Android Studio, MySQL

- Built a real-time mobile booking system with **visual slot indicators** and **GPS auto-cancel** features to reduce overbooking and customer complaints.
- Integrated secure **payment handling** and slot optimization logic, improving booking accuracy by **35%**.

Customized Virtual Assistant Chatbot (JARVIS)

Mar 2024 – May 2024

HTML, CSS, Gemini AI API, Google Calendar API

- Developed an **AI-powered virtual assistant** using **Gemini AI API** for tasks like **text summarization**, **event scheduling**, **email automation**, and **weather forecasting**.
- Applied advanced **NLP techniques** for intent detection and command parsing, achieving task execution accuracy of **93%**.

Hospital Management System

May 2025

Python, MySQL

- Designed a complete **admin panel** to manage patients, doctors, services, and billing workflows.
- Applied **OOP principles** for modular design, enabling easy maintenance and scalability.
- Automated medical billing logic to reduce manual processing by **40%**.

CERTIFICATIONS

- Cloud Computing – NPTEL Certification
- Data Analytics Job Simulation – Deloitte Virtual Internship
- Full Stack Development – Python Bootcamp
- Hackathon Participation – State-Level (SDE Track)
- Research Publication – Slot Booking for Vehicle Parking

TECHNICAL SKILLS

Languages: Python, C, Java, JavaScript, HTML, CSS, Bash

Databases: MySQL, MongoDB, T-SQL, Firebase

Frameworks & Platforms: Flask, React, WordPress, Shopify, Azure

Tools: Git, Power BI, Visual Studio, PyCharm, Eclipse

Libraries: NumPy, pandas, matplotlib, OpenCV, NLTK, seaborn, TensorFlow, PyTorch

Soft Skills: Teamwork, Communication, Problem Solving, Adaptability