

SARTH PATEL

Champaign, Illinois 📞 +91 9757478957 ✉ sarthp870@gmail.com 🔗 [linkedin.com/in/sarth-patel-s1411](https://www.linkedin.com/in/sarth-patel-s1411)

EDUCATION

University of Illinois Urbana Champaign

Expected Jun 2026

Masters of Science in Information Management

Courses: Database Design and Prototyping, Data Warehousing and Business Intelligence, Data, Models and Information

Dwarkadas Jivanlal Sanghvi College of Engineering

Feb 2021 - Jun 2024

Bachleors of Technology in Computer Engineering

Courses: Advance Database Management Systems, Software Engineering, Operating Systems, Computer Networks

TECHNICAL COMPETENCIES

Languages Python, C, C + +, Java, JavaScript
Frameworks Django, Flask, ReactJS, NodeJS
OS Windows, Ubuntu

Testing Pytest, Postman
Databases MySQL, Postgres, MongoDB, MS Excel
Visualization PowerBI

RECENT EXPERIENCE

Webomatic Softech Private Limited — Mumbai, India

July 2022 - October 2022

Django Developer

- Major responsibilities included managing existing source code and building new features for handling backend requirements of ecommerce web application in Django framework.
- Wrote and optimized SQL queries for data retrieval and manipulation, improving application efficiency.
- Developed reliable and efficient APIs, increasing the system performance by 25 percent.
- Tested the APIs using Postman Tool and documented the backend work flow design.
- Collaborated with frontend developers to integrate user-facing elements with server-side logic, enhancing user experience.

ACADEMIC PROJECTS

EcoWind: Smart Energy Forecasting and Optimization for Wind Farms

Jun 2023 - May 2024

- Successfully led the "EcoWind" project, which optimized wind farm efficiency using advanced machine learning techniques and Amazon SageMaker. Developed predictive models to enhance renewable energy production, demonstrated a 7.5 percent increase in power output through innovative wake steering techniques. Adapted at leveraging Python (PyTorch), SCADA systems, and optimization algorithms to solve complex problems and drive sustainable energy solutions

T20 Cricket World Cup Analysis

July 2023 - Aug 2023

- Conducted an end-to-end data analysis project for T20 World Cup (2022). Employed Beautiful Soup for web scraping of player statistics from ESPNcricinfo, ensuring comprehensive data collection. Utilized pandas and numpy for data cleaning and transformation, ensuring data integrity and preparing datasets for analysis. Created interactive dashboards in Power BI to visualize player performance metrics and team compositions, facilitating strategic decision-making.

Virtual Try on

July 2022 - Jun 2023

- Engineered an innovative web application allowing users to visualize apparel selection using OpenCV, Blaze Pose Technology to map out key body points and overlay PNG function from cv-zone library to superimpose the apparel on to the user for real-time image processing; boosted user engagement by 40 percent and reduced return rates by 15 percent.

Customer Management System

Nov 2021 - Jan 2022

- Spearheaded the development and implementation of a CRM system optimizing customer relationship management, with a user-friendly interface design with HTML, CSS, JavaScript, ReactJs as frontend and CRUD functionality; integrated payment management via Razorpay, resulting in a 40 percent increase in customer retention rate.

CERTIFICATIONS

Microsoft Power BI Desktop for Business Intelligence

Building Web Applications in Django

Programming for Everybody (Getting Started with Python)