SARTH PATEL

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EDUCATION

University of Illinois Urbana Champaign, Champaign, US   **Jun 2026**
Master of Science in Information Systems
Courses: Database Design and Prototyping, Data Warehousing and Business Intelligence, Data, Models and Information

Dwarkadas Jivanlal Sanghvi College of Engineering, India   **Jun 2024**
Bachleors of Technology in Computer Engineering
Courses: Advance Database Management Systems, Software Engineering, Operating Systems, Computer Networks

SKILLS SUMMARY

- **Programming Languages**:   Python, C, C++, Java, HTML, CSS, JavaScript
- **Software/Databases**:   MySQL, Postgres, Splunk, MongoDB, Azure
- **Tools:**   Power BI, Tableau, Alteryx, Github, Pytest, Postman
- **Web Frameworks**:   Django, DjangoREST Framework, Flask, React JS, NodeJS

PROFESSIONAL EXPERIENCE

Software Developer| Webomatic Softech Private Limited |*India*   **Jun 2022 – Oct 2022**
- 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%.
- 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.

PROJECTS

Maven Rail Challenge   **May 2024 – Jun 2024**
- Developed a comprehensive data visualization Power BI dashboard using DAX functions, and to support business services for passenger train operators in England.
- Identified the top 10 most popular routes based on passenger traffic data, enhancing resource allocation.
- Examined revenue streams from various ticket types and classes, analyzed travel patterns, determining peak travel times, which led to a 15% optimization in scheduling.

EcoWind: Smart Energy Forecasting and Optimization for Wind Farms | *Mumbai, India*   **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% 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 | *Mumbai, India*   **Jul 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
- Created interactive dashboards in Power BI to visualize player performance metrics, facilitating strategic decision-making

Virtual Try-on: Real-Time Clothes Try-On with Computer Vision| *Mumbai, India*   **Jun 2022 – Jun 2023**
- Created a web interface using Python Flask for virtual clothes try-on, enhancing user interaction. Implemented OpenCV and MediaPipe for video capture and realistic clothing alignment, improving the accuracy of virtual try-ons.
- Leveraged precise pose detection algorithms to identify critical landmarks, achieving an average pose detection accuracy of 70% for realistic clothing alignment and adaptation to users' movements.

CERTIFICATIONS

Microsoft Power BI Desktop for Business Intelligence
Power BI virtual program by PwC Switzerland