Smit Patel

Data Engineer

• 322 S Yellowstone Dr • Madison, WI 53705 • (608) 217-5885
• smitpatel1331@gmail.com • LinkedIn • GitHub • Portfolio • Tableau

SKILLS

Python, SQL, NoSQL, LLM, Data Visualization, Database Design, RDBMS, NLP, Data Cleaning and Processing, Data Transformation, EDA, Data Mining, Data Wrangling, Data Warehousing, ETL, Unix, Statistical Analysis, Predictive Modeling, Problem Solving, Analytical Thinking

WORK EXPERIENCE

UNIVERSITY HEALTH SERVICES (UHS)   **Madison, WI, USA**
Data & Quality Analyst   May 2024-Present
- Analyze healthcare data and prepare data briefs for UHS leadership.
- Assist with quality improvement projects to enhance service delivery and patient outcomes.
- Perform data downloads and extractions, ensuring accurate and timely updates to the UHS KPI dashboard to monitor and improve healthcare performance.

COGNIZANT TECHNOLOGY SOLUTIONS (CTS)   **Mumbai, MH, India**
Programmer Analyst Trainee   Sep 2022-Mar 2023
- Achieved **20% improvement** in software efficiency by developing, testing & implementing optimized code solutions.
- Collaborated with cross-functional teams to analyze user requirements, resulting in **30% reduction in troubleshooting time** and enhancing overall system performance.
- Implemented streamlined coding practices, resulting in **15% reduction in code complexity** and enhancing overall system maintainability and readability.

EDUCATION

UNIVERSITY OF WISCONSIN – MADISON   **Madison, WI, USA**
Master of Science in Information Science (Concentration: Data Analytics & Data Management)   Sep 2023 - May 2025
GPA: 4.0

UNIVERSITY OF MUMBAI   **Mumbai, MH, India**
Bachelor of Engineering in Information Technology   Aug 2018 - May 2022
GPA: 3.62
Relevant Coursework: Data Analytics, Database Design, Machine Learning for Business Analytics, Artificial Intelligence, Cloud Computing, Business Communication, DevOps, Computer Architecture, Project Management, Text Mining, Software Engineering

PROJECTS

SALES DASHBOARD USING TABLEAU   **Sep 2023 - Dec 2023**
- Conducted in-depth research and data analysis on a retail company's sale across U.S., extracting trends and insights, resulting in a **25% increase** in identification of key factors influencing sales in each state.
- Performed data cleaning, preprocessing, data validation and data wrangling on Tableau Prep that led to **35% increase in data consistency.**
- Developed reports and Tableau dashboards with interactive data visualizations that facilitated a **30% reduction** in time required to grasp critical information.

HEALTHCARE CHATBOT USING RASA   **Sep 2021 - May 2022**
- Features included disease prediction using NLP based on symptoms resulting in a **40% increase** in accurate diagnosis, and appointment booking resulting in a **30% deduction** in missed appointments.
- Designed, trained and tested ML model using classification algorithms to successfully predict potential diseases with **94% accuracy**.
- Collectively published a research paper in the journal Recent Trends in Information Technology and its Application (2022) with more than **1k views and 500 downloads**.

RAINFALL PREDICTION IN AUSTRALIA   **Jan 2021 - May 2021**
- Carried out predictive analysis to forecast rainfall in Australia based on historical data from 2007 to 2017.
- Performed data cleaning and preprocessing, data wrangling that led to **35% increase** in data consistency.
- Successfully trained and tested machine learning model using classification algorithms with **92% accuracy**.

TOOLS, LANGUAGES AND CERTIFICATIONS

- **Tools:** Tableau, Power BI, MySQL, OpenReports, Power Query, Jupyter, MS Excel, MS Office, AWS, Azure, Salesforce, Weka, Git, Informatica, Rasa, RStudio, Pandas, NumPy, Seaborn, Matplotlib, Scikit-learn, TensorFlow, PyTorch, Keras, Ubuntu, Snowflake
- **Languages:** Python, SQL, R Programming, C/C++, JavaScript
- **Certifications:** i. Professional Certificate in Applied AI – *IBM*   ii. Spoken Tutorial Certification in Python and MySQL – *IIT Bombay*