

# Smit Patel

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## SKILLS

Python, SQL, Data Visualization, RDBMS, NLP, Exploratory Data Analysis (EDA), Data Mining, Data Engineering, Unix, CI/CD, Statistical Analysis, ER Modeling, Agile/Scrum, Data Structures, Problem Solving, Analytical Thinking, Project Management, Cloud Computing

## WORK EXPERIENCE

**University Health Services** **Madison, WI, USA**  
Data & Quality Analyst May 2024-Present

- Implemented data analysis and quality assurance projects by leveraging complex SQL queries to identify trends, directly contributing to continuous monitoring and improvement of healthcare performance.
- Resolved 200+ data requests by extracting highly sensitive and confidential data from PnC OpenReports to create insightful graphs and visualizations for the UHS leadership to support decision-making.

**Field Day Lab** **Madison, WI, USA**  
Data Science Intern Oct 2024-Feb 2025

- Designed and embedded data collection tools into game environments to capture and transform raw clickstream data into actionable insights.
- Performed in-depth data transformations and feature engineering to analyze player behavior, enabling deeper insights for future game improvements and educational research.

**Cognizant** **Mumbai, India**  
Programmer Analyst Sep 2022-Mar 2023

- Architected and implemented scalable data pipelines using Informatica and Talend to extract data from various sources using ETL processes to improve data accessibility and reporting.
- Automated batch processing tasks using Airflow, reducing manual intervention by 25% and improvement in task execution times.

## EDUCATION

**University of Wisconsin-Madison** **Madison, WI, USA**  
Master of Science in Information Science (Specialization: Data Analytics & Data Management) Sep 2023 - May 2025

GPA: 4.0

**University of Mumbai** **Mumbai, India**  
Bachelor of Engineering in Information Technology Aug 2018 - May 2022

GPA: 3.62

*Relevant Coursework:* Database Design, Machine Learning for Business Analytics, Business Communication, DevOps, Big Data Analytics

## PROJECTS

**Data Pipeline Development Using AWS** **Sept 2024**

- Designed and implemented a cloud-native data architecture using AWS services for a financial group business case to centralize financial data from multiple sources into a unified repository for streamlined analysis.
- Optimized an automated ETL process using Glue, transforming raw financial data into structured formats and loading it into Redshift, creating a scalable and centralized data warehouse.
- Deployed ML model in SageMaker to predict company bankruptcy for portfolio management.

**Sales Dashboard Development** **Jan 2024**

- Executed comprehensive research and advanced data analysis on retail sales business case study, uncovering critical trends and insights that enhanced the identification of key sales drivers by 25% across various states.
- Developed dynamic Tableau dashboards with interactive visualizations, streamlining the extraction of key insights and reducing the time required to analyze critical data by 30%.

**Healthcare Assistant Using Rasa** **May 2022**

- Engineered a cutting-edge NLP-based disease prediction feature, boosting diagnostic accuracy by 40% and reducing missed medical appointments by 20% through an efficient booking system.
- Co-authored a research paper published in *Recent Trends in Information Technology and its Application (2022)*, garnering over 1,000 views and 500 downloads.

## TOOLS, LANGUAGES AND CERTIFICATIONS

**Tools:** Tableau, PowerBI, SQL Server, MySQL, MongoDB, BigQuery, MS Excel, AWS S3, Glue, Redshift, SageMaker, Azure, Snowflake, Git, Apache Spark, Hadoop, MapReduce, Hive, Pandas, NumPy, Seaborn, Scikit-learn, Matplotlib, Ubuntu, Kafka, Databricks

**Programming Languages:** Python, SQL, R, C, JavaScript | **Certifications:** Professional Certificate in Applied AI – IBM

## EXTRA CURRICULAR ACTIVITIES

**Bar Manager, Wisconsin Union, Madison WI, USA** **May 2024-Sept 2024**

Managed over 50 events leading a high-performing team and trained 30+ employees earning Employee of the Month and Best Performance Employee awards for exceptional leadership and consistently delivering top-tier customer service.