Smit Patel

Data Analyst and ML Engineer

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SKILLS

Python, SQL, Data Visualization, Database Design, RDBMS, NLP, Data Cleaning and Preprocessing, Data Transformation, EDA, Data Mining, Data Warehousing, ETL, Unix, Statistical Analysis, Predictive Modeling, Regression, Clustering, Classification, Project Management

WORK EXPERIENCE

COGNIZANT TECHNOLOGY SOLUTIONS (CTS)   Mumbai, MH, India
Programmer Analyst Trainee   Sep 2022-Mar 2023
- Achieved **20% improvement** in software efficiency by developing and 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.

WISCONSIN UNION – CATERING   Madison, WI, USA
Student Supervisor   Sep 2023-Present
- Oversee daily food service operations and food preparations in Catering for over **100 customers**.
- Helped train and develop more than **30 new and existing staff**.
- Assisted event management and supervision in **50+ catered events.**

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: Business Intelligence, Data Analytics, Databases, Machine Learning, Artificial Intelligence, Big Data, Cloud Computing, Information Security, DevOps, Digital Forensics, Computer Architecture, Cybersecurity, Data Ethics: Algorithms and Policy

PROJECTS

POLICY BRIEF: STUDENT LOAN DEBTS IN USA   Sep 2023 - Dec 2023
- Conducted in-depth research and data analysis on U.S. student loan debts dataset, extracting trends and insights, resulting in a **25% increase** in identification of key factors influencing student loan debt patterns.
- 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 developed, trained and tested machine learning model using RandomForest and XGBoost classification algorithms with **99% accuracy**.

TOOLS, LANGUAGES AND CERTIFICATIONS

- **Tools:** Tableau, PowerBI, MySQL, MongoDB, Orange, Jupyter, MS Office, AWS, Azure, Google Cloud, Google Analytics, PowerShell, Weka, Git, Informatica, Rasa, RStudio, Pandas, NumPy, Seaborn, Matplotlib, Scikit-learn, TensorFlow, PyTorch, Keras, Ubuntu
- **Languages:** Python, SQL, R Programming, C/C++
- **Certifications:** i. Professional Certificate in Applied AI – *IBM*   ii. Spoken Tutorial Certification in Python and MySQL – *IIT Bombay*