GAURAV PATEL

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Professional Summary

Strategic Data Analyst with expertise in leveraging data analytics to optimize processes, enhance operational efficiency, and ensure regulatory compliance. Adept at utilizing advanced tools and techniques to deliver actionable insights and drive business performance. Known for critical thinking, precision, and effective communication in fast-paced, results-oriented environments.

Education

Mohawk College   **Jan 2023 - Dec 2024**
Computer Systems Technician   *Hamilton ON*

Certification

- Microsoft Azure Fundamentals
- Microsoft Business Analyst Professional Certificate
- Microsoft Certified: Power BI Data Analyst Associate
- Google Data Analytics Professional Certificate

Technical Skills

Programming Languages & Tools: Python (Pandas, NumPy, Scikit-learn, TensorFlow, PyTorch), R, SQL, JavaScript

Data Visualization & Analysis: Tableau, Power BI, Matplotlib, Seaborn, Plotly, Dash; Hypothesis Testing, Time Series Analysis, Experimental Design, Bayesian Methods

Data Management & Big Data: ETL Processes, Data Wrangling, Data Warehousing (Hadoop, Spark, Kafka)

Cloud & DevOps: AWS (S3, SageMaker, Lambda), Azure (ML Studio, Data Factory), Docker, CI/CD GitHub Actions

Machine Learning: Supervised and Unsupervised Learning, Deep Learning (TensorFlow, Keras), Ensemble Methods (XGBoost, LightGBM), NLP (NLTK, Hugging Face)

Soft Skills: Data Storytelling, Stakeholder Communication, Cross-Functional Collaboration, Problem-Solving, Leadership in Data Projects

Projects

Real Estate Capstone Project | *Python, Pandas, NumPy, Matplotlib, Scikit-learn*   **Aug 2024 – Oct 2024**

- Built a predictive real estate pricing model using machine learning regression techniques, achieving 95% model accuracy on validation data.
- Conducted advanced exploratory data analysis (EDA) to identify market trends and key valuation drivers, optimizing model performance.
- Designed interactive dashboards to provide stakeholders with actionable insights for informed investment decisions, leveraging Tableau and Python visualizations.

Spotify Recommendation System | *Scikit-learn, KNN, Collaborative Filtering, Content-Based Filtering* **Jul 2024 – Sep 2024**

- Developed a personalized recommendation engine using collaborative and content-based filtering techniques, optimizing user engagement by 20%.
- Engineered data pipelines for preprocessing user interaction data and implemented advanced hyperparameter tuning to enhance algorithm efficiency.
- Created dynamic dashboards to present recommendation insights and user behavior trends, demonstrating actionable business strategies.

Experience

Private Tutoring   **Sep 2020 – Jan 2021**
Mathematics Tutor   *City, State*

- Delivered personalized tutoring sessions to high school and college students on advanced topics including **Linear Algebra, Calculus, Probability, and Statistics**.
- Developed **customized lesson plans** to address individual learning needs, enabling students to improve problem-solving skills and achieve academic success.
- Guided students in understanding complex mathematical concepts by breaking them into manageable steps, enhancing their confidence and performance.
- Supported over 40+ students in achieving measurable improvement in test scores, assignments, and comprehension of mathematical theories.