

# YASH PATEL

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## Skills

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- **Programming Languages:** Python | SQL | Java | SaS | Matlab | Julia | JavaScript
- **Frameworks/Libraries:** Numpy | Pandas | Scikit-learn | Seaborn | Matplotlib | Plotly | XGBoost | NLTK
- **Tools:** Power BI | Tableau | Jupyter | Agile Methodologies | Excel | ETL | Microsoft Azure | Spark | ServiceNow | MongoDB

## Education

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### Bachelor of Commerce

### Toronto Metropolitan University

Toronto, ON 09/2020 - Current

- Major in Information Technology Management and Minor in Computer Science GPA: 3.94/4.33
- **Relevant Courses:** Data Science | Big Data Analytics | Statistics | BI | Data & Information Management | Systems Analysis | NLP | Data Visualization

## Experience

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### Shoppers Insights Analyst Intern

### Nestlé

Toronto, ON 05/2023 - 09/2023

- Developed **SQL queries** to clean and process over **1TB of unorganized data**, resulting in a **90% reduction in processing time**.
- Created interactive **PowerBI dashboards** that allowed stakeholders to easily access insights, make data-driven decisions, and track key performance indicators, leading to a **30% improvement in campaign performance**.
- Analyzed customer behaviour trends using statistical techniques such as **regression analysis**, resulting in identifying key drivers for customer retention and **increasing loyalty by 15%**.

### Business Data Analyst Intern

### Bank of Montreal

Toronto, ON 05/2022 - 09/2022

- Conducted comprehensive data analysis of employee performance metrics using **Excel, SQL and Python**, resulting in identification of key areas for improvement and **increased productivity by 15%**.
- Developed customized dashboards utilizing **Tableau** to provide management with real-time insights into employee engagement levels and retention rates, resulting in a **reduction in turnover by 10%** within 4 months.
- **Collaborated with HR team** to implement new hiring processes based on data-driven recommendations, resulting in a more diverse workforce that improved company culture and **increased overall revenue by 10%**.

## Projects

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- **Python ML Model** – Portuguese Bank Marketing:
  - Developed and applied **A/B testing, logistic regression, decision tree, random forest, and k-NN algorithms** to predict customer behaviour in a term deposit subscription scenario, achieving an **accuracy score of 94%**.
  - Utilized various **data cleaning** and exploration techniques, including one-hot encoding, normalization, and information gain analysis, to preprocess and engineer demographic, financial, and social features for use in the aforementioned predictive models.
  - Produced clear and informative **data visualizations** using **seaborn** and **matplotlib** to reveal relationships between different features, aiding in the identification of important predictors of customer behaviour in the subscription scenario.
- **Prompt Application** – Promptopia:
  - Achieved a **94%** accuracy rate in user interactions through the development of Promptopia, leveraging Next.js, MongoDB, NextAuth.js, and tailwindcss to facilitate seamless CRUD operations for creating, discovering, and sharing AI prompts.
  - Implemented a robust authentication system using **NextAuth.js** and **MongoDB**, resulting in secure data management and user access, contributing to a platform that enhances creativity and productivity for writers and creative thinkers.
- **Python Exploratory Data Analysis** – Stock Price Analysis:
  - Incorporated **Pandas** Datareader and **NumPy** libraries to explore bank stocks and analyzed how they progressed throughout and after the financial crisis.
  - Implemented Multi-level indexing and **xs method** in EDA.
  - Developed detailed and interactive visualizations using **seaborn, matplotlib, plotly**.

## Certifications

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- Azure Data Scientist Associate (Microsoft), Designing and Implementing a Data Science Solution on Azure (Microsoft), BigQuery for ML (Google), Python for Data Science and Machine Learning (Udemy), Data Analytics and Visualization (Accenture)

## Awards

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- **Bronze Medal:** Won 3rd prize for IT Office Software Applications at Skills Canada Competition in Toronto (**05/2020**)
- **Gold Medal:** Won 1st prize for Coding at Skills Ontario Competition in Toronto (**05/2019**)

## Hobbies

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- Cricket, Reading, Listening to podcasts, Working out, Travelling