

# Rushil Patel

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## Summary of Qualifications

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- Proficient in leveraging **predictive modelling** and **data visualization** to generate insights for analytical problems
- Experienced in **data extraction** and **data transformation** with **SQL**
- Skilled in **presenting** findings to non-technical audience, from past co-op experience with digital transformation
- Strong understanding of **Python**, **Tensorflow** and **ML Libraries** from personal projects utilizing large datasets
- Experienced in **software development** with **Python**, **C++**, **HTML** and **JavaScript** from coursework/Hackathons
- Working experience with **Agile methodologies** in IT business environment

## Experience

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### Economical Insurance

Security Analyst

Waterloo, ON

January 2019 – April 2019

- Utilized **MySQL** to query internal employee records to mitigate human error in data entry
- Designed and implemented a **process improvement** in daily reporting by querying data in IBM Mainframe
- Increased personal identity access awareness for over 200 internal employees as a security ambassador
- Terminated over 150+ redundant IDs with overlapping access within an **Agile** environment, essential for security role design
- Effectively **presented technical project** findings to business management teams within the company in order to prepare for database system switchover

## Projects

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### Predicting Titanic Survival, Binary Classification

Python | Tensorflow | Keras API | Pandas | Matplotlib

- Utilized Keras API to create a **deep learning** binary classification model which predicts an individual's survival rate based on various features such as age, class, gender, etc.
- Converted categorical data into numerical data with **one-hot encoding** method for processing within deep learning model as vectors
- Implemented **EarlyStopping** callback in order to monitor the model's validation accuracy and interrupt training if accuracy begins to decrease after designated number of epochs

### World Life Expectancy, Data Visualization

Python | Pandas | Matplotlib | Seaborn

- Utilized **Pandas** and **Matplotlib** Library to create line graphs displaying the change in life expectancy of 10 nations over 5 years
- Experimenting with different functionality of data visualization tools to apply to NLP processing and computer vision

### House Pricing Prediction, Regression

Python | sci-kit learn

- Developed a **linear regression model** to predict house prices with Boston housing dataset utilizing scikit-learn library

## Education

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### University of Waterloo

BASc. Honours Computer Engineering

Waterloo, ON

September 2018 – April 2023

- Relevant Coursework: Discrete Math & Logic, Linear Algebra, Calculus, Computer Programming