# Rushil Patel

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## Summary of Qualifications

- 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 previous employment at Economical Insurance
- Solid knowledge of **Python, Tensorflow** and **ML Libraries** from personal projects utilizing large datasets
- Working experience with **Agile methodologies** in IT business environment

## Experience

**Economical Insurance** Waterloo, ON
*Security Analyst* 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 using **Agile methodologies**, 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

**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

**University of Waterloo** Waterloo, ON
BASc. Honours Computer Engineering September 2018 – April 2023

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