# **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**

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 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