

Ethan Heimlich

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Education

University of Toronto

B.Sc Statistics: 3.25 GPA

Toronto, Ontario
Graduating April 2020

Employment History

Data Science Intern

IQVIA

Cambridge, Massachusetts

June 2018 - August 2018

- Implemented a machine learning model to predict whether a prescription drug claim was run under a health care plan's medical or pharmacy benefit:
 - Worked with internal clients to understand and develop the business problem and use case of the model.
 - Aggregated & cleaned sparse and messy data from 12 different sources using R and SQL.
 - Performed feature selection by utilizing a combination of domain knowledge and random forests.
 - Presented findings to both a technical and non-technical audience of senior management.
 - The project was utilized as a case study for future machine learning projects in the consulting practice.
- Designed complex SQL queries and excel pivot tables to extract and analyze longitudinal data for client deliverables.
- Investigated and analyzed issues in longitudinal prescription data utilizing SQL and excel.

Data Production Intern

IQVIA

June 2017 - August 2017

- Developed a T-SQL script automating a portion of the production team's QA checks, reducing workload by 8 hours per QA cycle.
- Wrote and promoted into production a collection of T-SQL stored procedures to create project databases and set up views to market databases.
- Created & populated SQL Server databases and views with requested market data.
- Completed QA checks on market data using T-SQL commands and data analysis.
- Trained full time hires about workflow and procedures.

Datathons

Finalist - Microsoft Toronto Data Science Challenge:

- Placed in the final six projects and presented results to a panel of professors and industry professionals. Built machine learning model utilizing Microsoft Azure and GEOTAB data to predict car accidents on a county level in the United States.

Best Use of SAS Award - Rotman MMA Datathon:

- Utilized Toronto Police and GEOTAB data to determine areas in Toronto with high drunk driving risk. Proposed a data-driven solution to the Toronto Police to help mitigate drunk driving accidents.

Participant - American Statistical Association's Toronto DataFest:

- Utilized Indeed.com and public data to predict whether an H-1B visa application would be accepted or not. Cleaned data and built model in Python and R with Microsoft Azure.

Technical Skills

- SQL, SSMS, SQL Server
- Python, R
- Cloudera Data Science Workbench