Patrick Chong

UWaterloo Statistics & Computer Science

TN-1 Visa Eligible

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TECH STACK

Pandas | Scikit-learn | SQL | Sigma | Looker | Python | dbt | Snowflake | Fivetran | Git

WORK EXPERIENCE

Data Scientist
Candid

07/2021 - 02/2023 *New York, USA*

- Leveraged **K-Means clustering** to model user profiles, influencing GTM strategy and increasing conversion & revenue by **5%**.
- Managed transition from DTC to B2B, speeding Operations velocity by **30%** with factors influencing funnel conversion, and collaborated with Product to evaluate the product launch that drove increased user revenue and improved user experience.
- Utilized **Vector AR** to forecast product volume and optimize Marketing spending, growing revenue by **25%.**
- Collaborated with Product to alleviate user pain points through **AB testing**, contributing to a **15%** increase in first-quarter sales after implementation.
- Enhanced Engineering data model efficiency by **85%** using **dbt**, enabling data democratization and insights through **Sigma**.

Data Scientist
PagerDuty

09/2019 - 12/2019 *San Francisco, USA*

- Developed a **Cox survival analysis** model to identify high-propensity accounts, leading to a **40%** increase in user acquisition and a **15%** improvement in Sales productivity and win rate.
- Built a **predictive regression model** to forecast account expansion, influencing Sales strategy and increasing revenue by **7%.**
- Provided accurate forecasts for pipeline coverage using **SARIMA**, enabling Sales & Marketing executives to make informed decisions and achieve quarterly targets.

Data Scientist
CIBC Data Studio

09/2018 - 12/2018 *Toronto, Canada*

- Achieved a **70% F1-Score** predicting the performance of current and future startups using a **Naive Bayes classifier**, enabling better investment decisions for Innovation Banking & Risk teams.
- Utilized **K-Means clustering** to prevent fraudulent transaction behavior, reducing losses for Anti-Money Laundering by **20%**.
- Conducted sentiment analysis using **GCP** and **TF-IDF**, eliminating product bottlenecks and improving user satisfaction.

SIDE PROJECTS

Pinot Noir Factorial Experiment (2021)
- Identified significant factors and interactions that influence a Pinot Noir's flavor from a **fractional factorial experiment**.

NHL Game Predictor (2019)
- Predicted NHL game winners with a **67% F1-Score**, providing valuable insights for sports enthusiasts and bettors.
- Implemented **six classification algorithms**, optimizing the model's performance and ensuring robust predictions for NHL game outcomes.
- Authored and published a comprehensive Medium article, breaking down the project and presenting an in-depth analysis.

EDUCATION

BMath; Major in Statistics, Minor in Computer Science
University of Waterloo

2015 - 2020