

Aditya Arora

Data Scientist

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EXPERIENCE

Data Scientist - Consumer DS

Jan 2021 - Apr 2021

[Wish](#)

San Francisco, CA (Remote)

- Built a 94% accurate model to predict the probability of the user refunding an item within 90 days
- Reduced refund abuse by 30% by developing a single scoring mechanism for each user to accurately reflect the abuse by them and their linked accounts against Wish refund policies
- Improved revenue by 2% by using XGBoost to conduct explainable user segmentation to isolate clusters of users that purchase upto 10x more from user generated content

Software Engineer - Payments

May 2020 - Sep 2020

[Wish](#)

San Francisco, CA (Remote)

- Improved transaction success by 3% for an annualized improvement in GMV by \$15M by setting up remove item retry mechanism for insufficient fund transactions
- Improved traceability of fraudulent actors by marking user sessions with a multi-factor authentication session key to log high risk events
- Increased average customer satisfaction by 3% by designing a user flow to allow users to change their payment method after placing an order
- Reduced fraud through post-purchase address updates by incorporating address verification flows

Software Engineer

Sep 2019 - Dec 2019

[KitchenMate](#)

Toronto, ON

- Increased customer food satisfaction by 40% by devising a statistical model based on customer reviews to isolate performance driving metrics for weekly menu design using Pandas/SciPy
- Setup a data analysis pipeline for food safety alerts on 150+ trigger keywords in customer reviews
- Built a top level dashboard with over 60 internal KPIs in Metabase to gauge performance of corporate customers in a single glance
- Developed over 70 dashboards in PostgreSQL/Metabase to measure internal KPIs across customers

Data Engineer

Jan 2019 - Apr 2019

[DraperAI / Perpetua](#)

Waterloo, ON

- Reduced customer conversion time by 15% by building a tool using Python, BigQuery and Google Sheets API to entice new customers
- Wrote performant and cost efficient queries for 100TB+ customer data on BigQuery
- Improved bid accuracy by 30% by analysing the performance of core algorithm in Tableau
- Decreased customer migration costs by 10% by setting up migration from competitor platforms
- Built an internal tool to detect and alert system downtime using BigQuery (GCP) and Metabase
- Found and fixed three high priority Django API bugs affecting 10% of our marquee customers

Data Scientist - Research Assistant

Sep 2018 - Dec 2018

[CPAMI, University of Waterloo](#)

Waterloo, ON

- Researched into NLP models in Python and Dialogflow for Loblaw's under Prof. Fakhri Karray to allow customers to ask contextual questions while in store
- Ported over existing solution from slower excel frameworks to PostgreSQL to improve net performance of product placement data warehouse by over 30%

Data Scientist/Full Stack Developer

Apr 2018 - Sep 2018

[LCBO|next](#)

Kitchener, ON

- Wrote complete CRUD web apps and REST APIs from scratch with less than 0.1% downtime to serve data to multiple internal applications to serve LCBO's customers
- Maintained the sole Kubernetes cluster to ensure uptime of containerised deployments
- Configured and maintained deployment pipelines on Visual Studio using TFS for Azure
- Debugged and productionised a Ruby on Rails web app with over 10,000 lines of code for LCBO's corporate customers including Loblaw's and Sobey's

SKILLS

Languages

Python, Javascript, C/C++, Rust, Java, Matlab

Data Science

XGboost, Sklearn, Pandas, Sklearn, Tensorflow, Keras, Tableau, SQL (PostgresQL/MySQL), BigQuery, MongoDB, ElasticSearch, Dialogflow

Full Stack

React/Redux, NodeJS, AngularJS, Typescript, Django, Flask, Pytest, SASS, Mocha/Chai

DevOps

Docker, Kubernetes, Microsoft Azure, Google Cloud Platform (GCP), Amazon Web Services (S3)

EDUCATION

University of Waterloo

BASc in Computer Engineering, Option in Artificial Intelligence, CAV: 92.08%

Term Dean's Honours List

For excellent academic performance for terms of Fall 2020, Fall 2018, Winter 2018 and Fall 2017

President's Research Award

For excellent academic performance coupled with research outside of course requirement with Prof. Fakhri Karray, Chair Waterloo.AI

PROJECTS

LeapMetry

[bit.ly/LeapMetry](#)

Designed an ASL to speech converter using Leap Motion, computer vision and Azure Text to Speech API and won the CANSOFCOM Data Analysis Challenge at Hack The North 2019

WaterlooWorksV2.0

[github](#)

Improves job search and filtering for students at UW, modernizing the user interface of the official job search platform using ReactJS, Node.js, MongoDB and ElasticSearch

Ray Tracer

[bit.ly/ja_rt](#)

Wrote a ray tracer in Rust with defocus blur, anti-aliasing and a positionable camera

SageCo

[bit.ly/theSageCo](#)

Co-founded a design agency that works with small startups to give them a brand identity along with web portfolio to show investors
Our projects: [thesage.co/work](#)