

Aditya Arora

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RELEVANT EXPERIENCE

LCBO|next, Kitchener — *Data Scientist*

May 2018 - Present

- Implemented an 85% accurate sales forecasting model from scratch in Keras to predict uptick in sales of products after incorporating the weather forecast
- Visualised and analysed sales trends at top retail locations to classify products into priority based classes to support Retail and Supply Chain divisions at LCBO

WATonomous, Waterloo — *Perception Core Member*

January 2018 - May 2018

- Core Member of the perception team as part of GM's AutoDrive Challenge
- Implemented a 5% more efficient model to identify lane markings in OpenCV
- Improved existing traffic sign detection computer vision models in Tensorflow by 15% using hyperparameter tuning and regularisation

Waterloop, Waterloo — *Web Lead*

September 2017 - March 2018

- Redesigned the entire new website as part of revamped branding in Fall 2017 with the help of Embedded JS templating on a Node.js server
- Minimized code duplication on the new website using a template engine that allowed for 30% page load boost while making it easier to maintain
- Improved page load time by 20% by creating responsive vector images in D3.js instead of using heavier and less efficient frameworks

Fino Bank Ltd, Navi Mumbai — *Data Analyst*

July 2017 - August 2017

- Improved efficiency of backend script by 300 times by using hash tables to implement an interactive dashboard to visualise revenue of top merchants and their sales breakdown in Python and D3.js
- Conceptualised, designed and implemented a dashboard to track the performance of new merchants month on month to predict merchants who had a better chance to increase the revenue

PROJECTS

Kaggle — *Data Science Competitions*

- Designed a deep neural network to predict the length of a New York City cab ride based on weather, time of day, co-ordinates for drop-off and pick up using tensorflow, numpy and pandas
- Implemented a tensorflow classifier to predict the chances of survival of a passenger on the Titanic based on ticket class, gender, age

SpeedReader — *Optimises reading*

- This project helps one read faster, up to 500 words per minute using rapid visual serial presentations
- Although still a work in progress, it is developed in d3.js and HTML

LANGUAGES AND TOOLS

Python • Node.js • Keras • Git
Tableau • numpy • JavaScript
HTML • CSS • D3.js • Bootstrap
jQuery • Pandas • Bash scripting
Tensorflow • C++ • PostgreSQL

EDUCATION

University of Waterloo

Bachelors of Applied Science in
Computer Engineering, 2017-2022

AWARDS

Term Dean's Honours List

For excellent academic performance
in each of Fall 2017, Winter 2018

Honours List

For rank 231 among 18000 students
in Euclid Mathematics Contest
organised by the Center for
Education in Mathematics &
Computing, University of Waterloo,
2017

President's Scholarship of Distinction

Awarded scholarship of \$2000,
along with \$1500 for Research and
\$1500 for international student
experience for use in later terms

IIT - Joint Entrance Exam

Among top 5000 students from over
1.2 million students in a Science and
Mathematics test organised by
Indian Institute of Technology, 2017

ONLINE SPECIALISATIONS

Deep Learning Specialisation
by Andrew Ng [ex-Google and
Stanford Researcher]