

# Divyang Arora

4th Year Computer Engineering Student Seeking Summer 2020 Internships

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## EXPERIENCE

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- **Toronto-Dominion Bank** Toronto, Canada  
*Data Science Intern* Sep 2019 - Dec 2019
  - Developed a predictive model with 92% accuracy to forecast whether a customer will refinance.
  - Automated creation of personalized marketing campaigns (300,000 customers) based on model results.
  - Campaign is projected to generate 300 new mortgages annually, according to preliminary results.
  - **Technologies Used:** Python, Apache Spark, SQL, Docker, Hadoop, Hive
- **Deloitte Consulting** Toronto, Canada  
*Data Science Intern* Jan 2019 - Apr 2019
  - Prototyped and built a classifier for JIRA tickets, removing low priority tickets to save hundreds of human processing hours.
  - Applied a keyword search algorithm to quantify and report how funds are spread internally across different research areas.
  - Generated reports and data visualizations in Tableau for Business Insights Team.
  - **Technologies Used:** Python, Apache Spark, JIRA, SQL, R, Tableau
- **Lumentum Inc** Ottawa, Canada  
*Software Engineering Intern* May 2018 - Sep 2018
  - Developed a graph analysis software using PANDAS to analyze 10,000+ graphs.
  - Implemented RESTful APIs in Node.js and Express.js to retrieve and store data-sets with MongoDB.
  - Designed an internal client facing UI with React.js and Angular to allow for data visualization and analysis with D3.js.
  - **Technologies Used:** Python, PANDAS, MongoDB, Node.js, Express.js, React.js, Angular, D3.js

## RESEARCH

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- **University of Ottawa** Ottawa, Canada  
*Engineering Research Assistant* Sep 2017 - Dec 2017
  - Worked on AI interacting with nanotech wearable electronics while improving cost and energy efficiency.
  - Researched Flexible Hybrid Electronics (FHE) that integrate both thin silicon chips along with printable electronic materials and sensors.

## PROJECTS

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- **Algorithmic Trading:** Used various ML models to predict Graham Numbers of stocks and identify value investing opportunities. Trying to encompass teachings of *The Intelligent Investor* by Benjamin Graham.
- **Undervalued Domain Hunter:** Utilized word2vec and TensorFlow to help identify undervalued domains for sale. Converted a \$1,000 investment to a portfolio worth over \$12,000.
- **SQL Parser:** Created a SQL Query Parser checking for redundant JOINS and simplifying logic.
- **Python and Statistics for Financial Analysis:** Completed course from *The Hong Kong University of Science and Technology*.

## EDUCATION

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- **University of Ottawa** Ottawa, Canada  
*Bachelor of Applied Science in Computer Engineering; Dean's Honour List* Sep 2016 - Dec 2020  
Minor in Engineering Management and Entrepreneurship (CO-OP) GPA: 3.84/4.0

## PROGRAMMING SKILLS

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**Languages:** Python, Java, Scala, C++, SQL, R, JavaScript, C, HTML, CSS

**Technologies:** Git, Apache Spark, TensorFlow, PyTorch, Hadoop, Docker, React, Kafka