

Krutheeka Rajkumar

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Work Experience

Database Modelling and Data Analyst Teaching Assistant

University of Toronto – [Jan 2019 – Present]

- Guided students through a series of exercises and homework on relational databases, JDBC systems, python and java programming, frontend development and data visualization techniques.
- Received an 85% approval rating from students and was asked to rejoin the team the subsequent year.

Web Developer and Tech Desk Assistant

University of Toronto | Victoria University – [Sept 2018 – May 2020]

- Worked on transforming static webpages to responsive webpages.
- Developed a python program to employ BeautifulSoup to parse through archived articles and catalogue them.
- Overall performance was rated “excellent” by supervisor during the year-end review.

Co-founder and Software Engineer

Tray Solutions Inc. | Hatchery Competition – [May 2019 – December 2019]

- Designed a web application using Django Framework, and deployed through EC2 instance on AWS.
- App was built as part of a summer competition and the team placed 3rd with signing up over 10 business clients.

Projects:

Machine Learning | Regression modeling

- Running elasticNet and regularized regression models to predict salaries based on various features.
- Was awarded an A+ for the project

Machine Learning | Natural Language Processing

- Conducted sentiment analysis using NLTK libraries to analyse reviews left by patrons on Trip advisor.
- Tangible positive and negative qualities were derived from the reviews, and specific areas of strengths and improvement were identified.
- Project was awarded an A+

Investment portfolio strategy comparison

- Seven investment strategies were simulated for a ten-asset portfolio to understand the best strategy and dissect the movement of the portfolio through different strategies
- Project scored a 14.5/15

Education:

University of Toronto

Master of Engineering - Industrial Engineering with emphasis on Data Analytics
GPA: 3.94/4.0

Colorado State University

Bachelor of Science - Engineering science
Minor – Mathematics
GPA: 3.14/4.0

Technical Skills:

Python, Database systems, MySQL, Numpy, Scipy, TensorFlow, data mining, data cleaning, Django, Pandas, Matplotlib, Sci-kit learn, Arduino-duo, machine shop tools, Ansys,

Languages:

English (professional)
Tamil (native)
Hindi (conversational)

Leadership and volunteer work:

Financial director [AMIGAS] | U of T

- Maintained financial records for the academic year of 2019-2020
- Successfully accounted for all transactions and managed sponsorships awarded to the organization.

Event Coordinator [Indian Students Association] | CSU

- Supported the organization, coordinating, and hosting of Indian events (Diwali, Holi, etc.)