Jeremy Cheung

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3+ years of experience as a Machine Learning Developer and Engineer

Technical Skills

- Python | SQL | Solidity | HTML | JavaScript | C
- Numpy | Pandas | Tensorflow | Scikit-learn | Anaconda | Jupyter Notebook | NoSQL | AWS S3
- MATLAB | Google Firebase | Git | OpenCV | Arduino | Airflow | Docker
- **Certifications:** Python for Data Science | Deep Learning Using TensorFlow | Docker Essentials

Professional Experience

Machine Learning Engineer   Montreal, Canada
Acrylic Robotics   *Oct 2021 – Sept 2022*

- Developed reinforcement learning algorithms to detect and recreate motion of a robotic arms movement using Python, Numpy and Tensorflow libraries, with 95% accuracy in error testing
- Applied computer vision preprocessing methods and 6D pose estimation to mimic and identify paint strokes from robotic arms for 10+ paint stroke classes
- Reviewed and maintained continuous integration, and continuous development (CI/CD) best practices with cross functional teams using Git, increasing overall productivity by 25%
- Improved the model training and evaluation metrics for monthly release of machine learning products internally, identifying areas for improvement and fine tuning hyperparameters
- Collaborated with 10+ software engineers and non-technical staff to translate business needs to data pipelines and machine learning algorithms

Data Scientist Intern   Toronto, Canada
GHD Group   *May 2021 – Oct 2021*

- Performed advanced statistical techniques such as regression and classification in order to identify key factors from engineering reports and presented insights directly to the Head of Analytics department
- Utilized SQL to perform relational data manipulation and produce data visualizations for over 30 clients
- Mined data and analytics through web scraping using Jupyter Notebooks and Pytorch and extracted relevant meteorological information for KPI measurements, reducing time spent to retrieve data by 40 - 60%

Data Analyst Intern   Toronto, Canada
Leapfrog Energy   *Sept 2020 - May 2021*

- Built a centralized database using Python and SQL for machine learning functionality to analyze sensor readings to track performance and efficiency of over 50+ temperature and humidity sensors
- Deployed time series analysis algorithms for internal use on weather and energy demand data to predict future demand of provincial electricity usage achieving 90% accuracy in predictions

Mechanical Engineering Intern   Toronto, Canada
Honda Canada   *May 2017 - May 2018*

- Enhanced project management and communication skills through managing 5+ different engineering projects simultaneously as well as conducting statistical analysis to identify trends and quantify performance upgrades

Education

Certificate of Machine Learning Engineering   San Diego, USA
UC San Diego Extended Studies   *2022*

Master of Mechanical Engineering M.Eng (Machine Learning Specialization)   Toronto, Canada
Toronto Metropolitan University   *2020 – 2022*

- Research focus in LSTM recurrent neural networks for time series prediction on renewable energy production

Bachelor of Mechanical Engineering B.Eng   Toronto, Canada
Toronto Metropolitan University   *2014 – 2019*