Jeremy Cheung

eremycheungwork@gmail.com jeremycheung111 jccheung.github.io

TECHNICAL SKILLS

- **Programming Languages:** Python | SQL | JavaScript | C
- **Libraries and Frameworks:** Numpy | Pandas | Tensorflow | Keras | PyTorch | Scikit-learn
- **Big Data Technologies:** Apache Spark | Hive | Hadoop | mySQL
- **Cloud and DevOps:** AWS S3 | Git | Gitlab | Google Firebase | Kubernetes | Docker | FastAPI
- **Programming Tools:** Tableau | Anaconda | AWS SageMaker | Jupyter Notebook | Jira

PROFESSIONAL EXPERIENCE

Machine Learning Engineer Hong Kong (Remote)
Lalamove *May 2023 – Present*

- Pushed production level computer vision and OCR APIs to find driver and user registration anomalies, reducing fraudulent activity on the platform by an estimated $2 million USD in annual savings to over 10 million users worldwide
- Trained, tested and deployed end-to-end image and face recognition systems to production, identifying sensitive data removing the need for manual labelling and preprocessing effectively reducing cost and time spent by 200 hours
- Built and finetuned large language models (LLMs) such as ChatGPT and Falcon for custom company chatbot usage, integrating with a vector database to reduce prompt return time and memory usage to increase orders worldwide
- Gathered, analyzed and mined data for deep learning feature analysis to optimize user and driver routing systems and reduce estimated wait times across the platform, improving the driver routing efficiency accuracy by 30%

Machine Learning Engineer Montreal, Canada
Acrylic Robotics *Oct 2021 – Oct 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 Project Link
- Applied computer vision preprocessing methods and 6D pose estimation to mimic and identify visual cues from robotic arms for 10+ paint stroke classes
- Collaborated with product partners, engineers, and non-technical staff as a liaison between technology and product to define feature requirements and design of A/B tests

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

- Built automated ETL tools for data searching, cleaning and analysis, reducing preprocessing time by 20%
- Utilized SQL to process and filter large-scale relational datasets and produced data visualizations for over 100+ clients
- Reviewed and maintained continuous integration, and continuous delivery (CI/CD) best practices with cross functional agile teams using DevOps frameworks and Git, improving code deployment productivity by 25%

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

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

EDUCATION

Certificate of Machine Learning Engineering San Diego, USA
University of California, San Diego Extended Studies *Sept 2022- Dec 2022*

- 400+ hours of hands-on intensive course in artificial intelligence and machine learning technologies and methods

Master of Mechanical Engineering M.Eng (Machine Learning Specialization) Toronto, Canada
Toronto Metropolitan University *Sept 2020 – June 2023*

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