

Joseph Mok

Email: hojinmok@gmail.com

Portfolio: hjmok.github.io/josephmok_portfolio

GitHub: github.com/hjmok

LinkedIn: linkedin.com/in/hojinjosephmok

Skills

Languages: Python, JavaScript, MATLAB, C++
ML Libraries: TensorFlow, Scikit-Learn, PyTorch, NumPy, Pandas, spaCy, NLTK, OpenCV, PySpark
Databases: MySQL, PostgreSQL, BigQuery
ML on Cloud: Docker, Kubernetes, Kubeflow, and Apache Airflow on Google Cloud Platform

Professional Experience

Fluence Analytics Houston, TX

Machine Learning & Automation Engineer, July 2021 – Present

- Created automated data preprocessing and visualization tools for faster data exploration
- Formatted output IoT data from ACOMP product onto BigQuery in Google Cloud Platform
- Set up Cloud Storage Buckets and Kubeflow Pipeline instances for data processing and model training
- Developed machine learning models using TensorFlow and Scikit-Learn for classification from ACOMP data
- Developed an RNN with LSTM with 0.96 F1-score using TensorFlow to detect baselines regions from detectors. Eliminated manual postprocessing of data by Application Scientist, saving several hours of labor

Yaya Foods Corp. Toronto, ON

Automation Engineer, July 2019 – July 2021

- Developed data mining process to extract IoT data, store in MySQL database, and presents it to Client application designed in Python and Ignition Automation software.
 - Created machine learning models to predict pump power usage based on production transmitter data
 - Lead the automation design for several SCADA systems by integrating PLCs, Ignition, and MySQL
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Projects

(Please visit my portfolio website for more projects)

Income Prediction Pipeline with Kubeflow hjmok.github.io/josephmok_portfolio

- Developed TensorFlow, Scikit-Learn, PyTorch, and XGBoost models to predict user income
- Containerized each model in a Docker image and deployed onto a Kubeflow pipeline for continuous training

Chicago Taxi Fare Prediction with Apache Airflow hjmok.github.io/josephmok_portfolio

- Wrote a DAG on Apache Airflow by utilizing Cloud Composer on Google Cloud Platform
- Visualized resulted DAG and trained on the Chicago Taxi Fare

Breast Cancer Malignant or Benign Diagnosis hjmok.github.io/josephmok_portfolio/#/BC

- Applied Logistic Regression and K-Nearest Neighbor analysis to classify a Breast cancer dataset
- Loaded the data onto BigQuery in Google Cloud Platform and using Kubeflow for training along a pipeline

Stock Prices Prediction hjmok.github.io/josephmok_portfolio/#/StockPriceRNN

- Created an RNN with LSTM model on TensorFlow to predict AMD and Google Stock prices
 - Resulting models were able to follow trend and scale of stock prices for quarterly and annual sequence sizes
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Education

- University of Waterloo, **Bachelor of Applied Science, Honor's Mechanical Engineering**, June 2019
- Coursera, **Machine Learning on Google Cloud Platform with TensorFlow Certificate**, July 2021
- Coursera, **Google Cloud Machine Learning Engineer Certificate**, April 2022



9 Courses

Google Cloud Big Data and
Machine Learning
Fundamentals

How Google does Machine
Learning

Launching into Machine
Learning

TensorFlow on Google Cloud

Feature Engineering

Machine Learning in the
Enterprise

Production Machine
Learning Systems

MLOps (Machine Learning
Operations) Fundamentals

ML Pipelines on Google
Cloud

Google Cloud

Apr 22, 2022

Ho Jin Joseph Mok

has successfully completed the online, non-credit Professional
Certificate

Preparing for Google Cloud Certification: Machine Learning Engineer

In this Professional Certificate, learners understood how to design, build, productionalize ML models to solve business challenges using Google Cloud. They experimented with end-to-end ML, learnt advanced ML to build production-ready ML models on Google Cloud.

Google Cloud Training

The online specialization named in this certificate may draw on material from courses taught on-campus, but the included courses are not equivalent to on-campus courses. Participation in this online specialization does not constitute enrollment at this university. This certificate does not confer a University grade, course credit or degree, and it does not verify the identity of the learner.

Verify this certificate at:

[https://https://coursera.org/verify/professional-cert/6DWU9554PFXM](https://coursera.org/verify/professional-cert/6DWU9554PFXM)