Kohei Suzuki
Machine Learning Engineer
kohei.suzuki808@gmail.com https://boblef.github.io/

Summary

One of the highly self-motivated machine learning engineers in the Vancouver area with 2 years of machine learning experience and 6 months of working experience as a machine learning engineer intern at a startup. I am able to do from sourcing data to deployment for productions and always try to optimize each process by using appropriate metrics, algorithms, and data structures.

Skills

Programming Languages: Python, C/C++, SQL, Java, Bash
Machine Learning: Computer Vision, NLP, Time Series, Reinforcement Learning, Classic ML Algorithms
Python Libraries: Tensorflow, PyTorch, Pandas, Numpy, Matplotlib, Sklearn, Jupyter Notebook, Flask
OS: Linux, OSX
Others: AWS (EC2, DynamoDB, CloudWatch), Github, Algorithms and Data structures, Scrum

Work Experience

Singular Software Inc.   Jan 2019 - Jun 2019
Machine Learning engineer intern
Reference from the CEO, Bruce Sharpe:
https://boblef.github.io/docs/Reference_letter_for_Kohei%20Suzuki.pdf

Singular Software is a company developed a phone-based hearing assistive app that helps people to hear speech in noisy situations by using the power of machine learning.

- Developed intern and external platforms. The external platform was for Mechanical Turk to collect scores for each data sample that was used to calculate some metrics. The internal system was where team members could see waveform and spectrogram of any audio files and play around with them interactively.
- Trained some machine learning models such as GMM. And presented the result with appropriate metrics such as WER and MOS to team members.
- Worked with team members in agile way by changing things as we needed and learned how scrum works.

Projects

Automated fx trading strategy with Reinforcement Learning   Jan 2020 - Present
- Have developed MVP within a month that includes collecting live data that is fed into a deep reinforcement learning model that returned a combination of actions that we should take, places actual orders based on the output from DRL model on OANDA which is a forex broker I use, and sending a push message to my LINE account with the result of transactions of each day.
- Made every process automated on AWS EC2 by defining operations needed in a bash script and used CloudWatch to turn on and off the server when needed.
- Now I have worked on version two in which I try to improve the DRL model to be able to make a profit in the real market.
- For more information about this project, please visit *projects* section in https://boblef.github.io/

Ticket-Dodger https://ticket-dodger.com/   Aug 2019 - Sep 2019
- Was a team project when I studied at 7 Gate Academy, and we developed an app that predicts the likelihood of getting a parking ticket on a location provided in the Vancouver area.
- Used user's date time and location such as street name, block number to predict the likelihood by using machine learning models such as neural nets, tree-based models.
- Deployed with AWS Lambda that was triggered when user enters a location.
- Used precision and recall as metrics but also inference time when we compared the model's performance.

Education

- 7 Gate Academy, Machine Learning Bootcamp   Jul 2019 - Sep 2019
- Institute of Technology Development of Canada   Jul 2019 - Jun 2019
  Two years Diploma in Computer Science: 90.23%
- Brain Station Vancouver, Data Science Bootcamp   Apr 2018 - Jun 2018
- Bachelor Degree in Computer Science at Tokyo City University   Apr 2012 - Apr 2013
  Matriculated