ELAINE YE

EDUCATION

University of Waterloo
Computational Mathematics (BMath)
Class of 2019

TECHNICAL STRENGTHS

Languages	• Python (2yrs) • R (1yr) • MATLAB • C/C++ • JavaScript
Libraries	• NumPy • scikit-learn • Keras • TensorFlow • PyTorch
Software	• Bash • Git • MySQL

INTERN EXPERIENCE

IBM Sept 2018 - Dec 2018
IoT & AI Developer

- Investigated and implemented closed-set and open-set face recognition algorithms with facenet and SVM using Python and TensorFlow
- Built a PoC control access system to detect and recognize faces using Raspberry Pi with 99% accuracy
- Deployed interactive blockchain web app using React and Hyperledger Composer to track status information of IoT-enabled packages that pass through multiple carriers in the supply chain

Cognitive Systems Corp. May 2018 - August 2018
Machine Learning Data Analyst

- Detected and classified human and mechanical motion by extracting structured patterns from radio frequency signals and building a robust noise estimator
- Reduced false alarm rate by 50% by correctly distinguishing noise from real motion with statistical hypothesis tests

Crawford & Company/Crawford Compliance May 2017 - August 2017
Developer/R&D co-op

- Incorporated system validation in user authentication forms using JavaScript
- Managed auto-generated email templates using PHPMailer library
- Utilized Google Maps APIs and Bootstrap to generate weather widget prototype on dashboards
- Implemented English-French auto-translate functionality on Lead Management Web Application using Adobe ColdFusion and Microsoft SQL

PROJECT

NLP Emotion Detector
Developed a sentiment classifier for Chinese conversational text using TF-IDF (term frequency - inverse document frequency) and logistic regression in Python
My link: https://sugarc0de.github.io/NLP-sentiment/