Ning (Angela) Ye

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EDUCATION

Master of Science in Applied Computing | University of Toronto   *2019 – Present*
- Expected Graduation: End of 2020
- Applying for Summer 2020 Internship

BASc in Engineering Science (Robotics) | University of Toronto   *2014 – 2019*
- CGPA: 3.86/4.0

TECHNICAL PROFICIENCY

Languages: Python, Java, C, MATLAB, SQL
Tools: Linux, PyTorch, Flask, MySQL, Postman, Amazon Web Service (AWS), Docker, Git

WORK EXPERIENCE

Software Developer | Liscena Inc.   *Sept. 2018 – Apr. 2019*
- Created a software as a service (SaaS) platform for insurance carriers, saving adjusters at least 40 minutes per claim
- Designed a synchronized, two-way communication channel using web sockets; integrated it with an intelligent bot to handle over 70% of the queries asked by the client
- Developed software features with a FLASK server-side and RESTful architecture and hosted the applications on AWS cloud
- Implemented a configurable and input-dependent first notice of loss system to collect all the necessary information from a client

Embedded Systems Engineer | Aquova Inc.   *Sept. 2017 – Aug. 2018*
- Developed a hardware-in-the-loop architecture for an embedded controller to effectively treat industrial wastewater, providing up to 30% improvement in efficiency
- Optimized the design of a DC converter to significantly reduce the power loss of the system by almost 20%

Research Assistant | University of Toronto   *Jun. 2017 – Aug. 2017*
- Analyzed differences in children-directed and adult-directed speeches
- Processed acoustic features using Scikit-learn and WEKA tools to extract the most relevant features for training and testing
- Classified data using a selection of learners: Naïve Bayes, SVC, random forest and few-layer neural network and achieved a best accuracy of 77%
- Transformed audio segments into wavelets and concluded that features from raw audio demonstrate a higher accuracy for distinguishing between the two classes

COURSE PROJECTS

Thesis Project | University of Toronto   *Sept. 2018 – Apr. 2019*
- Implemented a Siamese convolutional neural network (CNN) using PyTorch for one-shot learning classification
- Integrated the classification head into a RetinaNet network to learn discriminative feature embeddings, which can be generalized to compute similarity levels between unseen objects in a few-example object detection task
- The resultant end-to-end network achieved a 89% accuracy on the test set, a significant improvement compared to the baseline accuracy of 72% obtained by training the networks separately