Angad **Puri**

Data Scientist · Software Engineer

☐ (+1) 519-729-8728 | ✉ aspuri@edu.uwaterloo.ca | ⌂ angad02.github.io/ | ⌂ Angad02 | in Angadsinghpuri

Skills

Languages, Python, Java, C++, Android

Databases, MySQL, MongoDB, AWS, SQLite, SQL Server 2016

Web Technologies, JavaScript, jQuery, AJAX, JSON, XML

Libraries, Tensorflow, Keras, Pandas, Numpy, scikit-learn, matplotlib

Work Experience

Gamma-Dynacare Medical Labs *Peel Region, ON*

Data Science Intern *Sept. 2017 - Jan. 2018*

- Engineered **RNN-LSTM** for **time-series** data to make weekly prediction for hourly patient volumes by tests for **200 Dynacare location**
- Improved prediction accuracy from **74% to 96%** by adding exogenous variables, and fine-tuning **RNN-LSTM** parameters
- Used **T-SQL** to prepare the time-series **training and test dataset** from the company's raw production data
- Utilized **transfer learning**, retrained last layer of **CNN** with custom data to extract the dialog box data with **92%** accuracy
- Scraped **1.3 million images** of scanned Ontario medical forms from company's **data lake** making comprehensive DB of medical form
- **Responsibility:** research, project architecture, constraints optimization,data pre-processing, presentations, automation
- **Technologies/Tools:** Python, Keras, Pandas, SQL Server 2016, T-SQL, Anaconda, Excel, VBA, BeautifulSoup, Alteryx, H20

Vocatok *Waterloo, ON*

Software Architect *Aug. 2017 - Current*

- Vocatok is an **android voice messaging** app that lets user share voice stickers, voice emoticons, images, videos, contacts and location
- **Responsibility:** application **architecture design**, unit testing and **optimizing** the backend for **client-server model** on **AWS**
- **Technologies/Tools:** Android Studio, Java, XML, Twilio, AWS, Invision, Crashlytics

Blackberry *Ottawa, ON*

Software Engineering Intern *Jan. 2017 - May. 2017*

- Worked in **UNIX** based environment, developed **android applications** and **services** for **Blackberry Hub+ suite**
- Conceptualized a **Restful service** for maintaining the data of all 5 apps, reducing the maintenance hours by **400%**
- Gained a solid understanding of **project management** and software development life-cycle in an **agile** environment
- **Technologies/Tools:** Android Studio, Java, XML, SQLite, UNIX, Gerrit, Jenkins

Projects

Recruit Restaurant Visitor Forecasting *Online*

Kaggle Competition *2017*

- Implemented **CNN-RNN** architecture to forecast daily customer volume for **829** Japanese restaurants for **1.5 months** in advance
- Revamped the training data from **time-series data** points to **images** thus improving accuracy from **56% to 87%**

Diabetic Risk Predictor *Toronto, ON*

Deep Health Hackathon (Winner) *2017*

- An **android application** which predicts the risk of diabetes based on the patient input data with **92%** accuracy
- Engineered **data visualizations** for feature selection and trained **random forests** to predict the chances of diabetes

Education

University of Waterloo, 3A, Computer Engineering *Waterloo, ON*

BACHELOR OF APPLIED SCIENCES *Sept. 2015 - Summer 2020*

- **Relevant Courses:** Algorithms and Data Structures, Linear Algebra, Discrete Mathematics, Signals and Systems

Coursera Deep Learning Online Course

Online

- **Relevant Courses:** Convolution Neural Network, Recurrent Neural Network, Improving Deep Neural Networks