github.com/TomLisankie

Thomas Lisankie

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OBJECTIVE

I am a recent graduate of the Udacity Machine Learning Engineer Nanodegree seeking to leverage my technical skills and knowledge to build interesting NLP products.

EDUCATION

Udacity

Machine Learning Engineer Nanodegree

December 2017 - April 2018

Rutgers University, New Brunswick

New Brunswick, NJ

56 Credits towards BA in Cognitive Science, Astronomy Attended September 2015 - December 2017

SKILLS

- Languages: Python, Java, Objective-C, Swift, JavaScript
- Machine Learning and Data Science Tools: TensorFlow, Keras, scikit-learn, pandas

WORK, LEADERSHIP EXPERIENCE, AND RECOGNITION

Data Science Teaching Assistant

Rutgers University Continuing Education

July 2018 - Present

- Assisting in teaching a course that covers basic programming concepts, Python, JavaScript, data visualization, data analysis, SQL, MongoDB, R, Hadoop, Tableau, and machine learning concepts and tools.
- Strengthening knowledge even further through explanation of the subjects.

Software Development Intern

Sharkk, LLC

May 2017 - September 2017

- Assisted in developing an app to communicate with a Bluetooth low energy beacon in the <u>Angel Safety</u> device. Written using Cordova and AngularJS.
- Wrote frontend code for http://sharkklabs.com/ and https://angelsafety.org/blog.php.

PRIMARY PROJECTS

Sound Similarity with a Deep Learning Model - https://goo.gl/EhSR18

March 2018 - Present

- Developed a machine learning model using a Siamese neural network architecture which categorizes word pairs based on how similar they sound. Developed using Keras with a TensorFlow backend.
- Made use of embedding layers, convolutional layers, and other NLP techniques in order to find a "pronunciation space" where similar sounding words exist closer to each other.
- Achieved 30% test accuracy on millions of samples. Under continuous development to improve the accuracy.

<u>Prhymer</u> - http://tomlisankie.com/projects/prhymer/

May 2015 - Present

- Created an algorithm and the necessary infrastructure for comparing any two words based on their phonemic makeup to see how similar they are in pronunciation.
- Generalized to work as a novel global sequence alignment algorithm. Versions available in both Java and Python.
- Resulted in an algorithm that can reasonably tell how well two words rhyme and how similar they sound based on transcriptions of their pronunciations.