VIDUR SATIJA

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ABOUT ME

Im fascinated by the human brain. Neural Networks and Neuroscience are my areas of interest and I'd like to recreate the human mind piece by piece. Topics like cognition and psychology do share my interests too. I want to help solve intelligence.
My personal interests include listening to music, watching movies, reading novels, and playing soccer, table tennis and badminton.

EDUCATION

Bachelor of Technology, Computer Science and Engineering
Visvesvaraya National Institute of Technology 2016-2020

EXPERIENCE

Kites Egypt December 2016 - January 2017
Web Developer (Volunteering Intern)

- Made the website using HTML, CSS
- Made an e-marketting template
- Learned how to live alone in a foriegn country

PROJECTS

NMT Research, Encoder-Decoder Research in Neural Machine Translation

- Idea: Instead of training the seq2seq model end2end, we can train encoder and decoder seperately, and then later merge it using a neural network
- Results: Encoder and Decoder trained successfully, but the seq2seq model wasn't closely accurate to the end2end trained model

RhymeNet, A Neural Network model to generate rap songs using LSTMs

- Idea: Instead of training using only semantic meaning of rap songs, I added a phonetic meaning to the network
- Results: After training the model on past 10 years' rap songs, it was able to produce rap songs with rhythm and meaning

ShuffleNet, A Neural Network model to give song predictions based on past listening pattern

- Abstract: The shuffle in iTunes is random. It plays any type of music after any type of music. So I decided to make it learn my listening pattern and predict accordingly
- Idea: By using signal processing, I gave each song a vector. Then I trained a RNN network on these vectors by giving input as whole albums. Then when I start listening to songs, it will learn my music taste accordingly and predict

- Results: The model gave really good results as the upcoming song was related to the songs I was listening to previously

Voice AI, A text based program to understand natural language and follow commands

- Idea: Simple text based program to follow commands. Used Stanford-NLP for tagging and then facebook fastText for classification
- Results: The program played songs, changed volume and brightness, converted currency and searched on the net

RELEVANT SKILLS

- Machine Learning, Tensorflow, Python, and Google Cloud Platform
- Programming in C/C++, and Java

CERTIFICATIONS

Understanding the Brain: The Neurobiology of Everyday Life — University of Chicago (Coursera)
Computational Neuroscience — University of Washington (Coursera)