Yogesh Chellappa Chockalingam

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EDUCATION

University of Wisconsin-Madison

Madison, WI

MS, Computer Science (Machine Learning specialization); GPA: 3.76

May 2019

PES Institute of Technology

Bangalore, India

Bachelor of Engineering, Computer Science; GPA: 3.68

May 2015

EXPERIENCE

Intuit

Bangalore, India

Software Engineer 2

Aug 2015 - Aug 2017

- Desktop: Delivered key business features on TurboTax Desktop including a tax query system and a screen sharing module for connecting users to tax professionals.
- Quality: Improved product quality by roughly 40% by adding a tool for crash reporting, triaging and analysis.

Intuit

Bangalore, India

Software Intern Jan 2015 - Jun 2015

• Web Services: Imported business and financial data from QuickBooks into TurboTax using REST APIs. Reduced the time spent on preparing a tax return by 20 minutes and data entry errors by 15%.

GE Healthcare Bangalore, India Software Intern Summer 2014

• Computer Vision: Built a computer vision system using OpenCV to track patients in a hospital ward by aggregating multiple WebRTC based live video streams and applied background subtraction to track the patient. Attained 63% accuracy.

Projects and Publications

• Text Synthesis from Lip Movements [Deep Learning, Computer Vision]

Compared traditional computer vision techniques vs. an end to end neural network for synthesizing text from lips movements, given a video clip. Used optical flow, spatio-temporal convolutional layers and a GRU based recurrent neural network. Attained a BLEU score of 0.27. [Project Wiki]

• Tag Prediction for StackOverflow Questions [Machine Learning]

Developed a multi-class, multi-label ensemble classifier with support vector machines and decision trees to predict the tags of StackOverflow questions, given the question title and body. Attained an F1 score of 0.64. [GitHub]

• Embedding Database Records [Databases, ETL]

Designed a scheme to embed database records and built a pipeline to perform error detection and error correction of dirty records. Obtained a 95% precision on error detection and 83% accuracy in error cleaning. [GitHub]

• Driver Fatigue Detection System [Computer Vision, Robotics]

Developed a system using OpenCV to detect fatigue in drivers by uniquely combining eye tracking and blink detection, vawning detection, pulse rate and core body temperature of the driver. Achieved 80.55% precision and 97% recall with sub-second alerts being raised. Published at ICSIP 2016.

• Question Pairs on Quora [Natural Language Processing, Deep Learning]

Detected pairs of questions on Quora which have the same semantics using a Siamese neural network with custom word embeddings and bidirectional LSTMs. Attained an accuracy of 64%. [GitHub]

SKILLS

Languages: Python, SQL, Java, Objective-C, C, C#, JavaScript, HTML/CSS, PHP

Tools: Keras, TensorFlow, Scikit-Learn, Jupyter, Flask, Power BI, Pandas, OpenCV, Git, P4V, MATLAB

Hackathons and awards

Winner: UW-Madison EnerHack (2018)

Star of the Quarter: Intuit (2015 & 2017) Second Runners: Harman World Hackathon (2016) Winner: Intuit Hackathon (2016 & 2017)