# YOGESH CHELLAPPA CHOCKALINGAM

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## EDUCATION

**University of Wisconsin-Madison,** *Madison, WI* **May 2019**

- MS, Computer Science (GPA: 3.55)
- **Courses**: Machine Learning, Computer Vision, Data Science, Artificial Intelligence

**PES Institute of Technology,** *Bangalore, India* **May 2015**

- BE, Computer Science (GPA: 3.68)
- **Courses**: Algorithms, Data Structures, Databases, Operating Systems, Computer Networks, Parallel Computing

## WORK EXPERIENCE

**Intuit Inc,** *Software Engineer 2, Bangalore, India* **Aug 2015 - Aug 2017**

- Delivered key business features on TurboTax Desktop including a contextual tax query system and a screen sharing module for connecting users to tax professionals.

**Intuit Inc,** *Co-op Intern, Bangalore, India* **Jan 2015 - Jun 2015**

- Imported business and financial data from QuickBooks into TurboTax using REST APIs, thus jump starting a tax return. This helped reduce the time spent on preparing a tax return by 20 minutes and data entry errors by 15%.

**GE Healthcare,** *Software Engineering Intern, Bangalore, India* **Jun 2014 - Jul 2014**

- 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.

## SKILLS

- **Programming:** Python, Java, Objective-C, C, C#, .NET, SQL, JavaScript, HTML/CSS, PHP
- **Tools:** Keras, OpenCV, TensorFlow, scikit-learn, Jupyter, Flask, NumPy, Pandas, Bootstrap, Git, P4V, MATLAB

## PROJECTS

**Thematic Neural Style Transfer,** *University of Wisconsin-Madison*

- Transformed a given image to a stylized version using neural style transfer to combine multiple artistic styles by using the layers of VGG-16 convolutional neural network. [Github]

**Tag Prediction for StackOverflow Questions,** *University of Wisconsin-Madison*

- 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.

**Driver Fatigue Detection System,** *PES Institute of Technology*

- Developed a system using OpenCV to detect fatigue in drivers by uniquely combining eye tracking and blink detection, yawning detection, pulse rate and core body temperature of the driver. Achieved 80.55% accuracy and 97% recall with sub-second alerts being sounded through the vehicle's audio system.
- Published at IEEE International Conference on Signal and Image Processing – 2016, Beijing. [Link]

**Question Pairs on Quora,** *Kaggle*

- 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]

**Detecting Spam in SMS,** *Kaggle*

- Classified SMS as spam or ham, using word embeddings and a deep neural network. Attained an accuracy of 98.13% on the test set. [Kaggle]

## LEADERSHIP, HACKATHONS AND AWARDS

- Lead editor of the annual college magazine, Eclat (2014 - 2015)
- Intuit – Star of the Quarter (2015 & 2017)
- Winner – Intuit Hackathon (2016 & 2017)
- Second Runners – Harman World Hackathon (2016)
- Second Runners – JP Morgan Code for Good Hackathon (2014)