Github: <u>krohitm</u> LinkedIn: <u>krohitm</u>

KUMAR ROHIT MALHOTRA

(352) 888-1332 krohitm@gmail.com

EXPERIENCE

Research Student

intelligent Health lab University of Florida

May 2017-Present

- Research Area: Activity recognition of ICU patients via Real-time 2D Pose estimation using part affinity fields
- · Advisor: Dr. Parisa Rashidi

Software Engineer

TEKSystems

Mar 2016 - July 2016

- Designed data warehouse for Fixed Assets ETL module.
- Developed Fixed Assets ETL module and OBIEE reports, along with fixing around 90 bugs and defects in the existing code in a span of 2 months.

Associate Software Engineer

TEKSystems

June 2014 - Feb 2016

- Developed Trade and Business Planning, and Finance ETL modules.
- Reduced ETL flow time of various modules from 21 hours to less than 4 hours by merging the modules.

EDUCATION

Gainesville, FL

University of Florida

Fall 2016 – May 2018(Expected)

• M.S. in Computer Science. GPA: 3.5

Chandigarh, India

Chandigarh Engineering College

Fall 2010 - Spring 2014

· B. Tech. in Computer Science and Engineering

KEY PROJECTS

- **Speech Recognition Engine** (2017). Developed an end-to-end grapheme based speech recognition engine using deep convolutional neural networks with early fusion, completely from scratch. *Python*
- Cancer Prediction and Classification (2016). Predicted and classified cancer using gene expression; improved accuracy by 12% by reducing features from 54,000 to less than 500 by feature selection. *Python, scikit-learn*
- Identification of handwritten digits (2016). Developed a 95% accurate neural network to identify handwritten digits, with training time decreased by 50% using down sampling and early stopping. *Matlab*.
- Facial Recognition and Soft Biometrics (2016). Developed a facial recognition system using Eigen faces, and improved accuracy from 76% to 82% by experimenting with different number of principal components and ignoring high variance components. *Matlab*
- Interference Cancelling via Adaptive Filtering (2016). Developed an adaptive FIR filter for noise cancellation in a dual-mic system. Matlab
- **Recogneyes** (Swamp hacks 2017): App to draw sketches by tracking hand gestures via webcam, identify the sketch and then find an actual image. *Python, OpenCV, Clarifai API, Google's Custom Search API*

ADDITIONAL EXPERIENCE

- Vice President at University of Florida Artificial Intelligence Club (Feb 2016 Present): Gave a talk on convolutional neural networks and their application in image recognition using Tensorflow.
- Intel & MobileODT Cervical Cancer Screening (Kaggle 2017): Developed an image classification model to recognize the type of cervical cancer from patients' images dataset. Placed 121 out of 848 competitors (top 15%) on the leaderboard. *Python, Keras*

Languages and Technologies

- Python, Matlab, SQL, Latex, Git, Informatica Power Center, OBIEE, DAC, MS Office
- Libraries: Scikit-learn, Numpy, Keras, Tensorflow, Caffe, OpenCV
- Working Knowledge: C++, C, Java, R, Ruby, Rails, HTML
- · OS: Ubuntu, Mac OS, Windows
- · Databases: Oracle, MySQL