## Education

- MS., Clemson University, Computer Engineering: Intelligent Systems. 2018 2020 Thesis Segmentation and recognition of eating gestures from wrist motion using deep learning: The aim of this project is to develop a deep learning model for automatic segmentation and identification of eating related gestures based on wrist-motion data gathered from inertial measurement unit (IMU) sensors.
- MSc., Delft University of Technology (TU Delft), Electrical Engineering: Signals & Systems.
   2014 2017
   Thesis Intensity normalization in brain MRI images using joint-dictionary learning: This project explored possible methods for transforming multi-scanner MRI images of individual patients into a common intensity-space using machine learning, which could be useful in follow-up diagnosis for patients that relocate to other places.
- B.E., Maharashtra Institute of Technology Pune, Electronics & Telecommunication Engineering. 2008 2012

## Courses & Projects

- Clemson University, Deep Learning.
   Jan. 2019 May 2019

   This course covered the latest research in neural networks such as CNN, LSTM and GAN. For our project, we designed a residual neural network (ResNet) for identifying different categories of bullying and a separate category of non-bullying images, based on visual cues using Python and TensorFlow.
- Clemson University, Analysis of Tracking Systems.

  Aug. 2018 Dec. 2018

  The assignments focused on predictive analysis on different datasets using techniques such as linear and non-linear regression. In addition, Kalman filter, extended Kalman filter and particle filter were studied for continuous sequential data, while hidden Markov models were analyzed for discrete sequential data.
- TU Delft, Machine Learning.

  Mar. 2016 Aug. 2016

  The coursework included theoretical topics such as loss regularization, boosting and stochastic gradient descent as well as advanced topics including semi-supervised learning, multiple instance learning and reinforcement learning. It was concluded with the Kaggle competition 'Final Assignment-IN4320'.
- TU Delft, Digital Speech & Audio Processing.

  May 2015 Jul. 2015

  This course introduced us to the fundamentals of the human hearing system, speech and audio coding systems and speech enhancement. Our project focused on estimating statistical parameters of non-stationary noise and performing speech enhancement for producing clean and audible speech in digital hearing aids.

## Experience

- Clemson University, Graduate Teaching Assistant.

  Jan. 2019 May 2020
  Currently teaching the course Logic & Computing Devices for undergraduate engineering students.
- Clemson University, Graduate Grading Assistant.
   Aug. 2018 May 2020
   My assignments have included the courses Communication Systems (current) and Signals & Systems for undergraduate engineering students and the course Analysis of Tracking Systems for graduate students.
- Clemson University, Graduate Student Summer Employee.
   May 2019 Aug. 2019
   Conducted research on synthetically staining phase-contrast microscopy images using a new neural network known as Cyclic Conditional Generative Adversarial Networks (CC-GAN).
- Climate Connect Ltd., Data Scientist.
   Aug. 2017 Jan. 2018
   Majorly worked on forecasting day-ahead trading prices in the Indian Energy Exchange (IEX). Was also involved in data scraping and cleaning, software development and debugging phases of other projects.
- Cognizant Technology Solutions Pvt. Ltd., Engineer Trainee. Dec. 2012 Oct. 2013 Part of the team at the offshore development center associated with Lloyds Bank Plc. Supported the development team by monitoring mainframe servers, documenting daily job execution and reporting failure of critical jobs.

## Technical Skills

- Programming: C (intermediate), MATLAB/ Python (proficient). OS: Linux/Windows & POSIX (Cygwin/Msys2).
- Volunteer work: Reviewed manuscripts for the IEEE EMBS 16<sup>th</sup> International Conference on Wearable and Implantable Body Sensor Networks & the 2020 25<sup>th</sup> International Conference on Pattern Recognition.