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Education

- Master of Science, Clemson University, Computer Engineering. **Aug 2018 - May 2020**
  - ➤ First reported research on a deep learning model for simultaneously detecting & classifying smartwatch-sensor data.
  - ➤ Average accuracy per meal of human activity recognition (HAR) - eating close to 80% for all 264 participants.

- Master of Science, Delft University of Technology, Electrical Engineering. **Sep 2014 - Jan 2017**
  - ➤ Conducted research on 3D reconstruction of MRI images from one modality to another using machine learning.
  - ➤ This is aimed at improving the consistency of algorithms such as image segmentation in computer-aided diagnosis.

- Bachelor of Engineering, University of Pune, Electronics & Telecommunication. **Aug 2008 - May 2012**
  - ➤ Implemented a neural network algorithm for classifying script of handwritten text for faster sorting of postal envelopes.

Experience https://www.linkedin.com/in/yyl1109/

- Clemson University, Graduate Grading Assistant and Graduate Teaching Assistant. **Aug 2018 - May 2020**
  - ➤ Graded the courses Communication Systems, Signals & Systems and Analysis of Tracking Systems.
  - ➤ Oversaw the practical curriculum for the course Logic & Computing Devices.

- Clemson University, Department of Computer Science, Summer Employee. **May 2019 – Aug 2019**
  - ➤ Conducted research on generative adversarial neural networks (GAN) for synthetically staining microscopy images.
  - ➤ Achieved mean similarity of 0.9 with test images at 256 x 256 resolution and 0.78 at 2048 x 2048 full resolution.

- Maharashtra Institute Of Technology, Co-Researcher. **Feb 2018 - Jul 2018**
  - ➤ Conducted research on deep learning networks for predicting a score based on the aesthetic quality of images.

- Climate Connect Pvt. Ltd., Data Scientist. **Aug 2017 - Jan 2018**
  - ➤ Implemented machine learning models for forecasting trends in renewable energy data sets and grid-price prediction.
  - ➤ Improved energy-price forecasting accuracy of the day-ahead model by 36% for a period of four months.

- Cognizant Technology Solutions Pvt. Ltd., Engineer Trainee. **Dec 2012 - Oct 2013**
  - ➤ Monitored job execution on mainframe servers, and reported failure of critical jobs to on-site development teams.

Projects

- Clemson University, Deep Learning. **Jan 2019 - May 2019**
  - ➤ Studied advancements and state-of-the-art approaches in deep learning such as CNN, LSTM, VAE and GAN.
  - ➤ Implemented an end-to-end ResNet model for classifying bullying images based on the activity contained in them.

- Clemson University, Analysis of Tracking Systems. **Aug 2018 - Dec 2018**
  - ➤ Implemented regression and state-space techniques including Kalman filter, extended Kalman filter, particle filter and hidden Markov models for filtering, signal denoising and object tracking on multiple data sets.

- Delft University of Technology, Machine Learning & Kaggle In-Class Competition. **Mar 2016 - Aug 2016**
  - ➤ This course covered advanced topics such as loss regularization, gradient descent and multiple instance learning.
  - ➤ Designed a model pipeline for predicting if a person's annual income would exceed 40,000 Euros with 83.4% accuracy.

Technical & software development skills https://github.com/Yashgh7076

- **Programming:** C (intermediate), Python & MATLAB (advanced). **OS:** Windows & Linux. **Tools:** MSYS2 & Git.

- **Libraries & APIs:** Keras, matplotlib, numpy, OpenCV, PyMySQL, PyTorch, scikit-learn, TensorFlow & Win32.

- **Volunteer Work:** Clemson University, Reviewer for:
  - ➤ IEEE - EMBS 16th International Conference on Wearable and Implantable Body Sensor Networks 2019.
  - ➤ 25th International Conference on Pattern Recognition (ICPR) 2020.