Mandar Deshpande

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Education

- **Visvesvaraya National Institute of Technology** — Nagpur, India
  Bachelor of Technology in Electrical and Electronics; CGPA:8.73/10 — *July 2013 - May 2017*

Experience

- **Scilab Enterprises** — Nagpur, India
  Google Summer of Code - Student Developer, Organization Mentor — *May 2017 - Present*
  - **2017**: Developed the Jupyter integration with Scilab for machine learning. Tested using scikit-learn and keras
  - **2018**: Mentored student in development of Scilab native ML toolbox and Cloud integrated ML toolbox
- **Citi** — Pune, India
  Machine Learning Developer — *July 2017 - Present*
  - **ML Research**: Developing and improving performance of machine learning models for NLP
  - **Process Improvement**: Spark + H2O for deep learning. Creation of utilities to speed up production timelines
- **NumFocus** — Pune, India
  Google Summer of Code - Organization Mentor — *May 2018 and Aug. 2018*
  - **Responsibility**: Mentor the Neural networks for similarity learning on text (Gensim) project.
  - **Aim**: To benchmark similarity learning models and integrating with Gensim if significant improvements over unsupervised methods like word2vec
- **Citi** — Pune, India
  SDE Itern — *May 2016 - July 2016*
  - **Report Configuration Utility**: Actively worked with the Global Concentration Engine (GCE) team to develop a Jasper report configuration Tool and UI functionality
- **Rentarctica.com** — Nagpur, India
  App Developer — *May 2015 - Nov. 2015*
  - **Android App**: Designed and developed the UI and functionality of the Android app for an online renting portal

Selected Projects

- **Pixelwise Image Completion**: Collaborated with PhD scholar at IVPL Lab at Northwestern University to develop a flavor of ResNet using Keras and Tensorflow
- **Neural Style Transfer**: Independent implementation of content and style transfer. Extended to DeepDream and Stylenet to produce generative fractals.Incepton V2 for transfer learning on AWS EC2 instance
- **Object Detection and Localization using SSD**: PyTorch implementation of Single Shot Detectors for YOLO and Multi-Box SSD
- **Depression Detection using Sentiment Analysis**: Used k-means clustering and Naive-Bayes classifier on Twitter feed mined using Tweepy
- **Meta-heuristc Algorithms for Fault Location Estimation and MPP Tracking**: Researched evolutionary and nature based algorithms to estimate fault location on transmission lines and Maximum Power Point (MPP) Tracking of solar PV module using Matlab and Simulink

Research Papers

- **Depression Detection using Emotion AI**, Mandar Deshpande, Vignesh Rao
  IEEE International Conference On Intelligent Sustainable Systems 2017, ISBN:978-1-5386-1959-9

Programming Skills

- **Languages**: : Python, Java, C, Javascript, MATLAB
- **Frameworks**: : PyTorch, TensorFlow, Keras, Numpy, Pandas
- **Platforms**: : AWS EC2, Google Cloud Platform, Docker
- **Version Control**: : Git, SVN
- **Mobile Applications**: : Android App Development