

Mandar Deshpande

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EDUCATION

- **University of California, Los Angeles** Los Angeles, CA
Masters of Science in Electrical and Computer Engineering
Expected June 2021
Focus Area: Machine learning and computer vision
- **Visvesvaraya National Institute of Technology** Nagpur, India
Bachelor of Technology in Electrical and Electronics; CGPA:8.73/10
August 2013 - May 2017

PROGRAMMING SKILLS

- **Languages:** : Python, Java, C, Javascript
- **Libraries:** : TensorFlow, PyTorch, OpenCV, Numpy, Pandas

EXPERIENCE

- **Visual Machines Group (UCLA)** Los Angeles, CA
Graduate Researcher
October 2019 - Present
 - Tumor cell detection and localization using deep learning on CT scans
 - Using Mask Region based Convolutional Network (Mask-RCNN) for this task
- **Citi** Pune, India
Machine Learning Engineer
July 2017 - June 2019
 - Solved OCR use-cases with deep learning and traditional vision techniques on text images
 - Utilized NLP for parsing financial documents and extracting relevant information to bring down man-hours by 40%
- **Google Summer of Code - Mentor** Pune, India
TensorFlow
March 2019 - August 2019
 - Mentored the development of Random Network Distillation(RND), a bonus-based reinforcement learning algorithm
 - Verified RND in MountainCar-v2, a hard-exploration environment
- **Gensim** May 2018 - August 2018
 - Guided the neural networks for similarity learning research in Gensim, a topic modelling library
 - Benchmarked map score of 0.6463 using MatchPyramid on WikiQA test set
- **Scilab** May 2018 - August 2018
 - Mentored the development of Scilab native ML toolbox and Cloud integrated ML toolbox
- **Google Summer of Code - Student Developer** Nagpur, India
Scilab
May 2017 - August 2017
 - Integrated Jupyter with Scilab which allowed remote execution of model training in Python over network
- **Citi** Pune, India
Software Engineering Intern
May 2016 - July 2016
 - **Report Configuration Utility:** Developed a Jasper report configuration tool for the Global Concentration Engine (GCE) which reduced developer workload by 6 hours weekly

SELECTED PROJECTS

- **Pixelwise Image Completion:** Developed a flavor of Residual Networks in TensorFlow for image in-painting on medical imaging in collaboration with IVPL Lab at Northwestern University
- **Object Detection and Localization using SSD:** PyTorch implementation of Single Shot Detectors for YOLO and Multi-Box SSD
- **Meta-heuristic Algorithms for Fault Location Estimation:** Researched nature based algorithms to estimate fault location on transmission lines and Maximum Power Point (MPP) Tracking of solar PV

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