

Mandar Deshpande

mandar6@ucla.edu

+1-9165138518

mandroid6.github.io

github.com/mandroid6

Python, Shell, Matlab, JavaScript

EDUCATION

- **University of California, Los Angeles** Los Angeles, CA
Masters of Science in Electrical and Computer Engineering September 2019 - Exp. 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

EXPERIENCE

- **Visual Machines Group (UCLA)** Los Angeles, CA
Graduate Researcher October 2019 - Present
 - Investigating tumor cell detection and localization on CT scans using deep learning.
 - Implementing Mask Region based Convolutional Network (Mask-RCNN) in **Python**.
- **Citi** Pune, India
Machine Learning Engineer July 2017 - June 2019
 - Designed OCR pipeline using deep learning and computer vision on text images in **Python** and **JavaScript**.
 - Reduced man-hours by 40% by utilizing NLP for parsing financial documents and information extraction.
- **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. Used **Python** and **TensorFlow**.
- **Gensim** May 2018 - August 2018
 - Guided the neural networks for similarity learning research in Gensim, a topic modelling library for **Python**.
 - 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 in **Scilab** and **Python**.
- **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.

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.
- **Research Thesis: Meta-heuristic Algorithms for Fault Location Estimation:** Researched nature based algorithms using **Matlab** and **Simulink** to estimate fault location on transmission lines with 93% accuracy.

LEADERSHIP AND AWARDS

- **Represented Scilab at Google Mentor Summit 2018** at Sunnyvale, for contributing the ML toolbox.
- Handpicked as one of the **45 students nationwide** to attend a management seminar at **SP Jain, Singapore**.
- Awarded **Amul Vidya Bhushan** for academic excellence in 12th grade for achieving top 1%ile score across India.
- Offered **Research Scholarship** by the **Government of India** to pursue a career in Pure Sciences after 12th grade.

PERSONAL INTERESTS

- **Music:** Playing Guitar and Tabla
- **Reading:** I have read over 150 books
- **Art:** 3D Modelling in Blender and creating digital artwork
- **Editing:** Photo and Video Editing (Personal channel)