Mandar Deshpande

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EDUCATION

University of California, Los Angeles

Los Angeles, CA

Masters of Science in Electrical and Computer Engineering; CGPA:3.7/4

September 2019 - June 2021

Coursework: Deep learning, Statistical Machine Learning, Large Scale Data Mining

Visvesvaraya National Institute of Technology

Bachelor of Technology in Electrical and Electronics; CGPA:8.73/10

Nagpur, India August 2013 - May 2017

PROGRAMMING SKILLS

• Languages: : Python, Java, SQL, MATLAB, C, Javascript, HTML, CSS

• Libraries: : TensorFlow, PyTorch, OpenCV, numpy, pandas, scikit-learn

EXPERIENCE

Machine Learning Engineer

Pune, India

Citibank July 2017 - June 2019

- Designed OCR pipeline using deep learning (LSTM, CNN) on text images in Python and JavaScript.
- $\circ~$ Tabular data extraction from scanned financial statements using object localization (Fast-RCNN).
- Reduced man-hours by 40% by utilizing NLP for parsing financial documents and information extraction.

• Mentor - Google Summer of Code

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.
- Integrated the toolbox with Google Cloud Platform and Amazon Web Services for remote access over ssh.

Intern - Google Summer of Code

Nagpur, India

Scilab

May 2017 - August 2017

- Integrated Jupyter kernels in Scilab to allow remote **Python** script execution for ML model training and inference.
- Collaborated with core Scilab developers and Business Development team, to tailor toolbox for target user groups.

Software Engineering Intern

Pune, India

Citibank

May 2016 - July 2016

- Developed the frontend and backend of a Jasper report configuration web app using Java, SQL and jQuery.
- Reduced developer workload by 12 hours weekly by automating the data population pipeline for regulatory reports.

Android App Developer

Nagpur, India

Rentarctica

May 2015 - Nov 2015

- Developed the UI and functionality for mobile app in Android Studio using Java.
- Apps functionality helped the startup get funded through Google Startup Weekend.

Relevant 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.