MANTRI ADITYA ANULEKH

3025, Royal Street, Los Angeles, CA – 90007 | (213) 551-4257| adityaan@usc.edu | https://www.linkedin.com/in/aditya-anulekh/

EDUCATION

University of Southern California — **Los Angeles, CA**
Master of Science in Electrical and Computer Engineering – Machine Learning and Data Science — Anticipated May 2023
GPA 3.72/4

Mahindra Ecole Centrale — **Hyderabad, Telangana, India**
Bachelor of Technology in Electrical and Electronics Engineering — September 2020
GPA 3.7/4 (8.95/10.0)

Relevant Coursework: Machine Learning, Deep Learning, PDE Based Image Processing, Advanced Numerical Methods

SKILLS

- Programming Languages: Python, MATLAB, Bash, C
- Tools: PyTorch, TensorFlow, OpenCV, Amazon Web Services, Docker, Git, Django, Flask
- Hardware: Arduino, STM32, Raspberry Pi

EXPERIENCE

Jocata Financial Advisory and Technology, Machine Learning Team — Hyderabad, Telangana, India
Associate Machine Learning Engineer — January 2020-July 2021

- Developed and deployed time-efficient computer vision applications for smartphones with over 95% accuracy for optical character recognition of IDs and bank statements
- Enhanced performance of existing face match neural networks by 20% by employing image preprocessing techniques
- Recruited and managed a team of 6 engineers who worked on preparing datasets for large scale deep learning projects

Mahindra & Mahindra, Electronics Department — Chennai, Tamil Nadu, India
Internship — May 2019-July 2019

- Devised speaker recognition system for automobiles using Mel Frequency Cepstral Coefficients (MFCC) and clustering algorithms
- Prototyped cocktail party algorithm for enhanced call quality on a Raspberry Pi using Python

National Sun Yat-Sen University, Spintronics Laboratory — Kaohsiung, Taiwan
Research Intern — May 2018-July 2018

- Fabricated Magnetite (Fe_3O_4) thin films on various substrates and conducted X-Ray Diffraction, Resistance and Magnetization vs Temperature tests to study Verwey Transition

ACADEMIC PROJECTS

Generating Paintings from Photographs Using Generative Adversarial Networks — Fall 2021

- Implemented CycleGAN architecture in PyTorch to generate Monet styled paintings from photographs that achieved a Fréchet Inception Distance less than 60 on Kaggle

Warehouse Optimization using Generative Adversarial Networks — Fall 2019

- Designed and implemented GANs for predicting future generations of products for warehouse storage optimization

Intelligent Walking Stick for Visually Challenged — Spring 2019

- Engineered an intelligent walking stick using STM32 microcontroller capable of detecting obstacles and alerting the user
- Implemented fall detection system that can notify friends and relatives

ACHIEVEMENTS

- **TensorFlow Developer Certified**, Google — October 2020
- **Academic Scholarship Awardee**, Mahindra Ecole Centrale — 2016, 2017, 2019

ACTIVITIES

- **Head of Placement Council**, Mahindra Ecole Centrale — 2018-2020
- **Organized Online Classes for an Educational Institute during the COVID-19 Pandemic** — 2020
- **Instrumental Music – Indian Percussion Instruments**