

CHETHAN CHINDER CHANDRAPPA

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EDUCATION

University of California, Los Angeles(UCLA), Los Angeles, United States present
Master of Science in Electrical and Computer Engineering (Signals and Systems), **CGPA:** 4.0/4.0

Sri Jayachamarajendra College College of Engineering(SJCE), Mysore, India May 2018
Bachelor of Engineering in Electronics and Communication, **GPA:** 9.06/10

TECHNICAL SKILLS

Languages: Python, C++, C , Javascript, Java

Technologies/Tools/Frameworks: PyTorch, OpenCV, Numpy, TensorFlow, Matlab, Scikit, Linux, Cypress, Selenium

COURSES

- Linear Algebra
- Digital Image Processing
- Statistics and Probability
- Neural Networks and Deep Learning
- Computational Robotics
- Data Structures and Algorithms
- Computer Vision
- Computational Imaging

PROFESSIONAL/RESEARCH EXPERIENCE

Graduate Student Researcher- Visual Machines Group, UCLA (Python, Pytorch) Feb 2022 - present
UCLA, Los Angeles

- Deraining and Desnowing project: Working on creating a large scale dataset of rainy, snowy and clean image pairs and method to remove degradations in the image using Contrastive learning

MicroFocus (Javascript, Cypress, Selenium) Aug 2018 - Jul 2021
Software Design Engineer Bengaluru, India

- Implemented and orchestrated the development of UI-Automation framework using Cypress and JavaScript in an Agile Environment.
- Proposed and Redesigned the Regression Test suite for reduced time execution.

e-Yantra Robotics Competition (OpenCV, Numpy,Python, C++, V-REP) Oct.2017 - Mar.2018
Collector Robot in Agricultural theme,IIT Bombay

- Designed and Developed a Robotic system to collect the farm produce on the arena using Collector Robot and deposit them on the Truck which is moving around the arena

Navigate a terrain in space exploration theme,IIT Bombay Oct.2017 - Mar.2018

- Implemented Robotic system to explore a terrain with the help of guided laser for shortest path traversals

PROJECTS

Implementation of NeRF and its variants (Python , Tensorflow) Mar 2022- present
UCLA, Los Angeles

- Implementation of research paper Neural Radiance fields for view synthesis and experimentation with its variants

EEG Classification (Python , PyTorch) Feb-2022 - Mar 2022
UCLA, Los Angeles

- Implementation of Deep Spatial CNN LSTM network for classification of EEG signals

BioFaceNet: Deep Biophysical Face Image Interpretation (PyTorch, Numpy) Dec 2021 - Jan 2022
UCLA, Los Angeles

- Implementation of Research paper Biofacenet, to decompose the single RGB face image into Bio-physical parameters like melanin and Haemoglobin content, diffuse and specular maps
- Trained and tested the model based on Encoder-Decoder architecture in pyTorch using Augmented CelebA dataset

Static Keypoint Extraction for Visual Odometry (OpenCV, C++, Python)

Sept 2021 - Dec 2021

Computational Robotics, UCLA, Los Angeles

- Designed and Developed an Algorithm to extract ORB Keypoints only from static objects in a Dynamic environment by using Geometric vision techniques and semantic segmentation.
- Experimented with optical flow techniques and Depth data to find the Dynamic regions in the scene with TUM-RGBD dataset and Implemented camera Pose estimation using only static correspondences

Panorama stitching and 3D reconstruction. (Python, Numpy)

Nov 2021

Computer Vision, UCLA, Los Angeles

- Designed and Developed a pipeline from scratch to stitch images to create Panorama
- Triangulation of 3D coordinates using stereo reconstruction.

Natural scene text recognition for visually impaired (Python, TensorFlow)

Aug 2017 - May 2018

SJCE, Mysore

- Implementation of text Segmentation pipeline in the wild and recognition of English characters.