Anirudha Kemtur

+91 9686520389
f2015626@pilani.bits-pilani.ac.in
https://anirudhk686.github.io/
anirudhk686

Education

2015–2020 **B.E.(Hons.) in Computer Science**, *Birla Institute of Technology and Science (BITS) Pilani*, Pilani Campus, India, *CGPA 8.7/10*.

2015–2020 **M.Sc.(Hons.) in Economics**, *Birla Institute of Technology and Science (BITS) Pilani*, Pilani Campus, India, *CGPA 8.7/10*.
5 Year Dual Degree Program

2013–2015 **Class 12-Karnataka State Board**, *Deeksha College*, Bangalore, India, *Percentage 93.5*.

2003–2013 **Class 10-ICSE Board**, *Swargarani School*, Bangalore, India, *Percentage 91.4*.

Software skills

Expertise Machine learning - Computer vision, Deep reinforcement learning
Computational Neuroscience

Languages Professional: Python
Intermediate: Java, C, Verilog

Libraries Keras, TensorFlow, Open-cv, Django

Experience

December'19–Present **Research Assistant**, *CSIR - Central Electronics Engineering Research Institute*, Pilani, India.
Dr. J L Raheja
- Working on control of Robot manipulator using Deep reinforcement learning techniques.

June'18–August'18 **Research Intern**, *Computational Neuroscience lab, IIT- Madras*, Chennai, India.
Prof. Dr. V Srinivasa Chakravarthy
- Worked on Computational Neuro-modeling of Reinforcement learning in the brain(Basal Ganglia region).

Feb'18–April'18 **Research Assistant**, *CSIR - Central Electronics Engineering Research Institute*, Pilani, India.
Dr. A. S. Mandal
- Worked on classification of EEG(Brain Signals) data as a part of the project "Drone Maneuvering using Brain-machine Interfaces".

May'17–July'17 **Summer Intern**, *National Centre for Antarctic and Ocean Research*, Goa, India.
Mr. Sakthivel Samy V
- Worked on developing a facial recognition system (Currently being used for automatic attendance monitoring at the institute).
- Modeled Antarctic temperature data using ARIMA approach.
- Project details mentioned below.

Major Projects

January'18-present **Video summarization using Deep learning techniques**.
- Exploring various approaches to video summarization such as Reinforcement learning, Bi-directional LSTM's and Attention networks.

July'17 **Facial recognition system using Convolutional Neural Network**.
- Followed a three step approach: face detection,encoding and comparison.
- Face encoding was based on the approach suggested in M. Parkhi et al.,2015.
- VGG-16 Net architecture used and was implemented using keras library.
- Transfer Learning was used to generalize the model.
- Second last layer's feature vectors were extracted and were compared using cosine similarity.

[Project Blog] [Code]

June'17 **Antartic weather data analysis**.
- Analyzed temperature data with the Autoregressive Integrated Moving Average Model.
- Forecast was also done based on the obtained model.

[Project Report] [Code]

Dec'16 **Stock Market Simulator**.
- A trading platform built using Django, built for college technical fest
- Server hosted on LAN, participants could register and trade with their mobile.

[Code]

Coursework

Computer Science Convolutional Neural Networks for Visual Recognition,Deep Reinforcement learning , Machine Learning, Data Structures and Algorithms, Microprocessors and Interfacing, Object Oriented Programming

Mathematics Probablity and Statistics,Econometric methods,Linear Algebra, Calculus

Organisations

Aug'15–Present **Association for Computing Machinery**, *BITS-Pilani Student Chapter*, Core Team.
- Chapter has been awarded the Best Student Chapter in India for 3 consecutive years with a recognition from ACM International.
- We try to instill an interest amongst the members for various forms of software and hardware related skills via Special Interest Groups and lectures.

[Website]