\$\pi +91 9686520389 \sqrt{2015626@pilani.bits-pilani.ac.in} \text{\ti}\text{\texit{\text{\text{\text{\texi\text{\texi\text{\text{\text{\texi}\text{\text{\texitil{\text{\texicl{\text{\texitilex{\text{\texi}\text{\t

Anirudha Kemtur

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- **Research Assistant**, *CSIR* - *Central Electronics Engineering Research Institute*, Pilani, Present India.

Dr. J L Raheja

Working on control of Robot manipulator using Deep reinforcement learning techniques.

June'18- Research Intern, Computational Neuroscience lab, IIT- Madras, Chennai, India.

August'18 Prof. Dr. V Srinivasa Chakravarthy

 Worked on Computational Neuro-modeling of Reinforcement learning in the brain(Basal Ganglia region).

Feb'18- **Research Assistant**, *CSIR* - *Central Electronics Engineering Research Institute*, Pilani, April'18 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- Summer Intern, National Centre for Antarctic and Ocean Research, Goa, India.

July'17 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- Video summarization using Deep learning techniques.

present o Exploring various approaches to video summarization such as Reinforcement learning, Bidirectional 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 Convolutional Neural Networks for Visual Recognition, Deep Reinforcement learning Science , Machine Learning, Data Structures and Algorithms, Microprocessors and Interfacing, Object Oriented Programming

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

Organisations

Aug'15- **Association for Computing Machinery**, *BITS-Pilani Student Chapter*, Core Team.

- Present O 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]