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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]

Achievements

January'19 Mitacs Globalink Scholarship.

• Financial award to participate as research intern in Canada for 3 months.

June'15 Jee mains All India Rank-3320.

13 Lakh Students had appeared for the exam