Anirudha Kemtur

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 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 - Deep reinforcement learning, Computer vision

Computational Neuroscience

Languages Professional: Python

Intermediate: Java, C, Verilog

Libraries Pytorch, TensorFlow, Open-AI gym , Django

Experience

May'19– **MITACS Globalink Research Intern**, *Computational and Cognitive Neuroscience Lab*,
Present Université de Montréal, Montreal, Canada.
Dr. Karim Jerbi
  ○ Classification of EEG signals using deep neural networks.
  ○ Using Convnet with Adversarial training to classify and extract features that separate high dream recall group from low dream recall.

Jan'19– **Research Assistant**, *CSIR - Central Electronics Engineering Research Institute*, Pilani,
May'19 India.
Dr. J L Raheja
  ○ Worked on control of Robot manipulator using Deep reinforcement learning techniques.
  ○ Customized FetchReach Open-AI gym environment to include obstacles. DDPG + HER used along with modified reward function.

[Project video]

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.

Other Projects

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–   **Association for Computing Machinery**, *BITS-Pilani Student Chapter*, Core Team.
Present
- 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 and also scholarship of 15,000 CAD to pursue Masters.

June'15   **Jee mains All India Rank-3320**.
- 13 Lakh Students had appeared for the exam