

Anirudha Kemptur

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Education

- 2015–2020 **B.E.(Hons.) in Computer Science**, *Birla Institute of Technology and Science (BITS) Pilani*, Pilani Campus, India, *CGPA 8.54/10*.
- 2015–2020 **M.Sc.(Hons.) in Economics**, *Birla Institute of Technology and Science (BITS) Pilani*, Pilani Campus, India, *CGPA 8.54/10*.
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

- February'20– **Research Intern**, *MILA - Quebec AI Institute*, Montreal, Canada.
Present Dr. Karim Jerbi
◦ Exploring human cognition using deep neural networks.
- September'19– **Bachelor Thesis**, *Rationality Enhancement Group*, Max Planck Institute for Intelligent Systems,
December'19 Tübingen, Germany.
Dr. Falk Lieder
◦ Developing strategies robust to model-misspecification using Meta-level Reinforcement learning and Domain randomization.
- May'19– **MITACS Globalink Research Intern**, *Computational and Cognitive Neuroscience Lab*, Univer-
August'19 sité de Montréal, Montreal, Canada.
Dr. Karim Jerbi
◦ Study of EEG sleep data using Convolutional neural networks.
- Jan'19– **Research Assistant**, *CSIR - Central Electronics Engineering Research Institute*, Pilani, India.
May'19 Dr. J L Raheja
◦ Worked 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.
- Feb'18– **Research Assistant**, *CSIR - Central Electronics Engineering Research Institute*, Pilani, India.
April'18 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 Probability 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