

# 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 8.76/10*.
- 2015–2020 **M.Sc.(Hons.) in Economics**, *Birla Institute of Technology and Science (BITS) Pilani*, Pilani Campus, India, *CGPA 8.76/10*.  
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 similarities between sleep and anaesthesia using EEG data.
  - Developing methods of domain transfer between sleep and anaesthesia using Domain adversarial 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 Bayesian Inference.
- 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.
- 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.

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## Other Projects

- July'17 **Facial recognition system using Convolutional Neural Network.**
- Followed a three step approach: face detection, encoding and comparison.
  - VGG-16 Net architecture used.
  - Transfer Learning was used to generalize the model.
- [\[Code\]](#)
- 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.
- [\[Code\]](#)

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## 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

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## Publications

- June'20 **Leveraging Machine Learning to Automatically Derive Robust Planning Strategies from Biased Models of the Environment**, *CogSci 2020: Annual Meeting of the Cognitive Science Society*.
- [\[Paper\]](#) [\[Video\]](#)

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## Organisations

- Aug'15– **Association for Computing Machinery**, *BITS-Pilani Student Chapter*, Core Team.
- May'20 ○ Chapter has been awarded the Best Student Chapter in India for 3 consecutive years with a recognition from ACM International.
- [\[Website\]](#)

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## Achievements

- February'20 **Mitacs Research fellowship.**
- Financial award of 6000 CAD to participate as research intern in Canada for 4 months.
- 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