

ANIRUDHA KEMTUR

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EDUCATION

BITS PILANI

B.E.(HONS.) COMPUTER SCIENCE
M.SC.(HONS.) ECONOMICS
Expected July 2020 | Pilani, India
Cum. GPA: 8.70/10

DEEKSHA COLLEGE

CLASS 12TH
Graduated May 2015 | Bangalore, India
Grade: 93.5%

LINKS

Website:// anirudhk686.github.io
Github:// [anirudhk686](https://github.com/anirudhk686)

COURSEWORK

MATHEMATICS

- Linear Algebra
- Probability and Statistics

COMPUTER SCIENCE

- Convolutional Neural Networks for Visual Recognition
- Machine Learning
- Data Structures and Algorithms
- Object Oriented Programming

NEUROSCIENCE

- Computational neuroscience*

*ongoing

SKILLS

EXPERTISE

- Convolutional neural networks
- Reinforcement learning

LANGUAGES

Over 5000 lines:

- Python

Over 1000 lines:

- Java
- C

TOOLS

- Keras
- Tensorflow
- Open-cv
- Django
- Jupyter-notebook

EXPERIENCE

COMPUTATIONAL NEUROSCIENCE LAB-IIT MADRAS

RESEARCH ASSISTANT

July 2018 - Present | Chennai, India

- Working under the guidance of [Dr. V Srinivasa Chakravarthy](#).
- Computational Neuro-modeling of Reinforcement learning in Basal Ganglia.
- Also working on a project to model walking using Reinforcement learning techniques.

NATIONAL CENTRE FOR ANTARCTIC AND OCEAN RESEARCH

RESEARCH INTERN

May 2017 - July 2017 | Goa, India

- Worked in ICT division under the guidance of Mr. Sakthivel Samy.
- Worked on developing facial recognition system for monitoring attendance.
- Modeled Antarctic temperature data using ARIMA approach.

MAJOR PROJECTS

FACIAL RECOGNITION SYSTEM USING CONVOLUTIONAL NEURAL NETWORK

July 2017

- 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.

[\[PROJECT BLOG\]](#) [\[CODE\]](#)

ANTARCTIC WEATHER DATA ANALYSIS

June 2017

- Analyzed temperature data with the Seasonal Autoregressive Integrated Moving Average Model.
- Forecast was also done based on the obtained model.

[\[PROJECT REPORT\]](#) [\[CODE\]](#)

STOCK MARKET SIMULATOR

Dec 2016

- A trading platform built using Django.

[\[CODE\]](#)

ORGANISATIONS

BITS PILANI ACM-STUDENT CHAPTER

CORE TEAM MEMBER | Aug 2015 - Present

- Chapter has been awarded the Best Student Chapter in India for 3 consecutive years with a recognition from ACM International.

ACHIEVEMENTS

- Selected for Global Academic Internship Programme at NTU, Singapore. Only 60 students selected from all over India.
- Jee mains All India Rank - 3320 [13 Lakh Students had appeared for the exam].