

# ABHAY CHARAN



D-1025, Bindapur, ND-59



+91 9716160330



abhaycharan13@gmail.com

## Objective

To apply and expand my knowledge and skill set in a demanding environment which allows me to enhance and develop my all-round skills and abilities.

## Current Projects

- Bird Species Classification from Audio (Major Project)
- Brain Computer Interaction Project (INMAS, DRDO)

## Techincal Skills

### Programming Languages

- C, C++
- Python
- Java
- MATLAB
- Shell Scripting (Bash)

### Industry Skills

- Machine Learning
- Deep Learning
- Web Development [HTML, CSS, Basic JavaScript, JQuery, Django, Symfony]
- Robotics

### Other Skills

- fMRI & EEG Research
- Cognitive Sciences & Brain Psychology
- LaTeX
- ROS

## Education

B.Tech in Computer Engineering

JAMIA MILLIA ISLAMIA

12th AND 10th

KENDRIYA VIDYALAYA JANAK PURI

8.01/10 (Upto 7th Sem)

2015-2019 (expected)

87.4% and 9.4/10

2014 and 2012

## Awards and Achievements

- December 2018 Co-Author for paper titled "Modulation of frontal and parietal alpha underpinning during moderate and high cognitive loading: EEG informed fmri analysis" sent to 25th NMRS Conference (Oral Accepted).
- August 2018 Co-Author for paper on Reconfiguration of Resting State Networks and resting EEG Microstates sent to 5th Annual Conference of Association for Cognitive Sciences (Oral Accepted), pp. 16-18.
- March 2018 3rd position holder (National) in E-yantra Robotics Competition (IIT BOMBAY) in Autonomous Chaser Drone theme. Task was to automate a drone to chase a randomly moving Line Following Robot (LFR) and then land on it.
- May 2014 Silver medal in International Mathematics Olympiad by Amity University.

## Experience and Projects

Minor Project

7th Sem (July 2018-December 2018)

- "Text Recognition and its Image Generation using Generative Models"
- Used Tesseract-OCR and Skipthought Vectors for text extraction and vector encoding.
- Used Generative Adversarial Networks based on DCGAN as Generative Model.

Institute of Nuclear Medicine & Allied Sciences, DRDO  
*Intern*

June 2018 - July 2018

- Worked on evaluation of different Machine Learning models for EEG Microstates Estimation.
- Learned about fMRI, EEG, simultaneous EEG-fMRI and their processing.
- Made automated scripts for EEG processing through standard tools.
- Helped other trainees in their projects related to Deep Learning.
- Working on drafting a paper on a different approach to EEG microstates estimation.

Cortex Logic (South African Startup)  
*Web User Interface Developer (Remote)*

October 2017 - October 2017

- Worked in a team of 3 people for an AI Search Tool Project
- Connected the back-end application to front-end using MongoDB and Django where front-end was designed in Django Template Language (DTL).

The Student Hub (South African Startup)  
*System Developer (Remote)*

July 2017 - August 2017

- Worked on building an educational platform (www.eraonline.co.za)
- Used Symfony framework, MySQL and many core web development tools.
- Added many features in the project like automatic E-Mail/SMS sender whenever professor publishes new test. Fixed many previous bugs.

## Extra-curricular Activities

- Basketball and Freestyle Football
- Caricature
- Penning Quotes and Poems
- Volunteer for Brain Research at INMAS.