

ABHAY CHARAN



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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.

Technical Skills

Programming Languages

C, C++

Python

Java

MATLAB

Shell Scripting (Bash)

Industry Skills

Machine Learning

Deep Learning

Web Development

Robotics

Web Development [HTML, CSS, Basic JavaScript, JQuery, Django, Symfony]

Other Skills

fMRI & EEG Research

Cognitive Sciences & Brain Psychology

LaTeX

ROS, V-rep

(*) [The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Education

B.Tech in Computer Engineering

JAMIA MILLIA ISLAMIA

12th AND 10th

KENDRIYA VIDYALAYA JANAK PURI

7.79/10 (Upto 6th 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.
- April 2018 Participated in Smart India Hackathon 2018 Grand Finale in project of Ship Trajectory's Anomaly Detection as Team Leader.
- 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)

October 2017 - October 2017

Web User Interface Developer (Remote)

- 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)

July 2017 - August 2017

System Developer (Remote)

- 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

- Volunteer for Brain Research Experiments at INMAS.
- Basketball (Runner-ups) (4th sem) in Inter-department college competition.
- Freestyle Football
- Penning Quotes and Poems