

# Ayan Sinha Mahapatra

ayansinha.dev | ayansmahapatra@gmail.com

## EDUCATION

### JADAVPUR UNIVERSITY

B.E. IN ELECTRONICS AND  
TELECOMMUNICATIONS ENGG.

May 2016 - Present | Kolkata, India  
Senior Year | Batch of 2020

## LINKS

Blog

Portfolio

Github:// [ayansinhamahapatra](#)

LinkedIn:// [Ayan Sinha Mahapatra](#)

Twitter:// [@ayansm23](#)

## SKILLS

### DOCUMENTATION

Sphinx • reStructuredText • Jekyll  
ReadTheDocs • Markdown

### PROGRAMMING

Languages:

C • Python • Matlab • Lua • Assembly

Python Libraries:

Tensorflow • Keras • NumPy • Pandas

Matplotlib • Scikit-Learn • OpenCV •

Django • Flask

C++ Libraries:

Eigen • Boost • MLPack

### NEUROSCIENCE

Software:

Brainvison Recorder/Analyzer

OpenVIBE • pyCorder

Libraries:

MNE-Python • EEGLab

## COURSEWORK

### UNDERGRADUATE

Data Structures And Algorithms

C Programming And Numerical Analysis

Computer Architecture

Embedded Systems

System Software

Microprocessors And Microcontrollers

### MOOCS

Neural Networks

Machine Learning

Computational Neuroscience

Deep Learning Specialization

Data Science with Python Specialization

Time Series Data (EEG) Processing

Introduction to Brain Computer

Interfaces Design

## TECHNICAL WRITING/DOCUMENTATION

### DOCUMENTATION DEVELOPEMENT @ ABOUTCODE |

OPEN-SOURCE CONTRIBUTIONS

Reorganizing the structure of docs at [aboutcode.readthedocs.io](#) from

GitHub wiki and writing tests with Travis-CI. [\[Blog Link\]](#) [\[Blog Index Page\]](#)

### NEUROSCIENCE RELATED TECHNICAL WRITINGS

Blog Posts on EEG Processing, How to start with Computational Neuroscience and more. [\[Blog Link\]](#) [\[Blog Index Page\]](#)

### KAGGLE RELATED TECHNICAL WRITINGS

Blog Posts on Kaggle related topics, links to Kaggle Kernels and more.

[\[Blog Link\]](#) [\[Blog Index Page\]](#)

### GENERAL TECHNICAL WRITINGS

General technical writings on various topics like Git, Django, Flask etc.

[\[Blog Link\]](#) [\[Blog Index Page\]](#)

## PROJECTS

### SIGNATURE VERIFICATION AND FULL STACK DEVELOPEMENT |

HACKATHON PARTICIPANT

Nov 2017 - July 2018 | Mumbai, India

With **Sayan Goswami**, developed a Signature Verification System and a portal for The State Bank of India. [\[GitHub Link\]](#)

### CUBESOLVING | PERSONAL PROJECT

With **Arnav Mandal**, developed a Cube Solving Program without any external standard Cube Libraries, i.e. from scratch. [\[GitHub Link\]](#)

### FORUM WEBSITE | PERSONAL PROJECT

Full-Stack Forum/Social-Network sites based on Django. [\[GitHub Link 1\]](#)  
[\[GitHub Link 2\]](#)

## INTERNSHIPS/RESEARCH

### NATIONAL AEROSPACE LABS, SYSTEMS DIV. | RESEARCH INTERN

May 20th 2019 - July 12th 2019 | Bangalore, India

Working on a EEG-Processing/Deep-Learning based online Brain Computer Interface for Drone/UAV Contol Applications. [\[GitHub Link\]](#)

### JU ARTIFICIAL INTELLIGENCE LAB | UNGERGRADUATE RESEARCHER

Nov 2018 - Present | Kolkata, India

Working under **Prof Amit Konar** on EEG based BCI systems, Fault Detection and Deep Learning. [\[GitHub Link\]](#)

### ISI KOLKATA ECSU DEPT. | UNDERGRADUATE RESEARCHER

Dec 2017 - Present | Kolkata, India

Worked under **Prof Swagatam Das** on Non-Convex Optimization and Deep Learning. [\[GitHub Link\]](#)

## VOLUNTEER/ORGANIZER

### TEDXJADAVPURUNIVERSITY | TRESURER AND OC MEMBER

Worked as an organizer at the 2018 Edition of TEDxJadapurUniversity, and in the senior team for the 2019 edition. [\[Website Link\]](#) [\[Brochure\]](#)