

# Ayan Sinha Mahapatra

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## EDUCATION

### JADAVPUR UNIVERSITY

B.E. IN ELECTRONICS AND  
TELECOMMUNICATIONS ENGG.  
May 2016 - Present | Kolkata, India  
Cum. CGPA: 8.1 / 10

### BIDHANNAGAR HIGH SCHOOL

Higher Secondary Exam  
May 2016 | Kolkata, India  
Marks Percentage 87.40

### RKMV PURULA

Secondary Exam  
May 2014 | Purulia, India  
Marks Percentage 91.90

## LINKS

Github:// [ayansinhamahapatra](#)  
LinkedIn:// [Ayan Sinha Mahapatra](#)  
Twitter:// [@ayansm23](#)

## COURSEWORK

### UNDERGRADUATE

Data Structures And Algorithms  
C Programming And Numerical Analysis  
Computer Architecture  
Micropocessors And Microcontrollers +  
Practicum  
Control Systems + Practicum  
Analog Systems + Practicum  
Digital Logic + Practicum  
Analog and Digital Comm. + Practicum

### MOOC COURSERA

Neural Networks  
Machine Learning  
Computational Neuroscience  
Deep Learning Specialization  
Data Science with Python Specialization

## SKILLS

### PROGRAMMING

Over 1000 lines:  
C • Python • Matlab  
Familiar:  
HTML • Lua • Assembly  
C Libraries:  
Eigen • MLPack  
Python Libraries:  
Tensorflow • Keras • NumPy • Pandas •  
Matplotlib • Scikit-Learn • OpenCV •  
Django • Flask

## PROJECTS

### SIGNATURE VERIFICATION AND FULL STACK DEVELOPEMENT | HACKATHON PARTICIPANT

Nov 2017 - July 2018 | Mumbai, India  
With **Sayan Goswami**, I've participated in the SBI Hackathon 2017, where we successfully developed a Signature Verification System (Using Siamese ConvNets) and Analytics Dashboard/Cloud Hosting. We participated in a Proof Of Concept Demonstration at SBI Global IT Center, Mumbai and went on to win the Hackathon. [\[GitHub Link\]](#)

### CUBESOLVING | PERSONAL PROJECT

I was working on a Cube Solving Program (without any external standard Cube Libraries, i.e. from scratch). [\[GitHub Link\]](#)

### FORUM WEBSITE | PERSONAL PROJECT

I worked on a Website Development Project Using Python-Django with Full Forum/Social Network like features for a University Club. [\[GitHub Link 1\]](#) [\[GitHub Link 2\]](#)

## RESEARCH

### JU ARTIFICIAL INTELLIGENCE LAB | UNGERGRADUATE RESEARCHER

Nov 2018 - Present | Kolkata, India  
Working under **Prof Amit Konar** on applications of Fuzzy Random Forest Algorithms for Circuit/Plant Fault Detection. I'll be working on Neuroscience problems from this January.

### ISI KOLKATA ECSU DEPT. | UNDERGRADUATE RESEARCHER

Dec 2017 - Present | Kolkata, India  
I have been working under the guidance of **Prof Swagatam Das**. The Research Problem is Based on applications of Evolutionary Algorithms (a VNS variant of Genetic Algorithms) on an Integer Programming problem [\[GitHub Link\]](#). I've also worked on advancements in Differential Evolution Algorithms (specifically SHADE/L-SHADE).

## ACHIEVEMENTS

2018	Winning team/ 1500 teams	SBI Automate For Bank Hackathon 2017
2017	4th Team in College	ICPC Online Round
2016	Ranked 306	WBEE

## CLUBS AND SOCIETIES

### TEDXJADAVPURUNIVERSITY | TRESURER AND OC MEMBER

Worked as an organizer at the 2018 Edition of TEDxJadapurUniversity, and in the senior team for the 2019 edition.

### AI AND KAGGLE UNIVERSITY CLUB | Co-FOUNDER

Co-founded the club with my classmate **Sayan Goswami**.

### ROBOTICS CLUB | VOLUNTEER

Organized an Image Processing/Machine Learning Workshop, participated in Robotics Competitions.