

# Ankan Das

THIRD YEAR UNDERGRADUATE · ELECTRICAL ENGINEERING

Indian Institute of Technology Kanpur

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## Education

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### Bachelor of Technology

MAJOR IN ELECTRICAL ENGINEERING, IIT KANPUR

IIT Kanpur

July, 2017 - till date

### Matriculation and Post Matriculation

KENDRIYA VIDYALAYA ONGC AGARTALA

Agartala

April 2005 - March 2017

## Honors & Awards

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2015 **KVS JMO**, All India Rank 28 and Regional Rank 2

KV ONGC Agartala

## Work Experience

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### Internet of Things, Prof. L Behera

INTERN, MENTOR

IIT Kanpur

May. 2019- Jul. 2019

- Worked on implementing different IoT applications using hardwares like Arduino Nano, Esp Module, NodeMCU, Raspberry pi and controlling different analog and digital devices with softwares like Arduino and Python.
- Completed a project "Neural Network based Obstacle avoidance for mobile robots" and designed a data model using Python and Raspberry Pi
- Mentored a group of 450 students who participated in a workshop of AI and IoT, conducted by ISmriti and helped them debug their problems, faced during many of their IoT applications.
- Used cloud services like Google Firebase and ThingSpeak, and made systems that control digital as well as analog devices, using hardwares or Mobile Apps made using MIT App Inventor.

## Projects

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### Fuel Flow rate prediction of Airplanes

COURSE PROJECT, PROF. FAIZ HAMID

IIT Kanpur

May. 2019 - July. 2019

- Predicted fuel flow rate of airplanes using a big data set of several attributes
- Used Neural Network to train the dataset after preprocessing - Cleaning the data, Data reduction, Integration.

### ABU Robocon 2019, GREAT URTUU

MEMBER, TEAM ROBOCON IIT KANPUR, PROF. ASHISH DUTTA

IIT Kanpur

Oct. 2018 - Apr. 2019

- Programmed and built 2 robots, one automatic and the other semi-automatic, one crosses some obstacles, crosses a bridge and handovers a 'gereege' to the second bot which is automatic and moves like a horse, hence Jensen Mechanism was used.
- The second bot crosses a sand dune and two rope fences and waits until the first bot picks up and throws 'Shanghai' to a specified area and when the score is 50 points, decided by the orientation of Shanghai, the second bot climbs up a 'hill'.

### Toy Bird

COURSE PROJECT, PROF. SUDHANSU SINGH

IIT Kanpur

Sept. 2018 - Nov. 2018

- Made a mechanical oscillating toy using iron and other metals.
- Used Casting, Sheet metal works, Brazing, welding, drilling, grinding etc to complete the project.

## **Stamping Press**

COURSE PROJECT, PROF. SHANTANU BHATTACHARYA

IIT Kanpur

Feb. 2019 - Apr. 2019

- Made a Stamping machine using iron and other metals.
- Used Milling, Turning, welding, drilling, grinding etc to complete the project.

## **Extracurricular Activity**

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### **Cartoon and Comic Designer** Vox Populi, IIT KANPUR

Aug. 2018 - till date

- Published several comics for Vox Populi, student journalism body of IITK
- Made Campus map for Fresher's Newsletter to help freshers find important places easily

### **Football Summer Camp** GAMES AND SPORTS COUNCIL, IIT KANPUR

May. 2018 - June. 2018

- Participated in the 35 days camp
- Took part in different sport events organised with other members of the camp from different sports

### **Member** FURSAT MANDLI, DRAMATICS CLUB, IIT KANPUR

Aug. 2017 - April. 2018

- Performed in several Mime and Street Plays

## **Skills**

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**Programming** C, Arduino, Python

**Web** HTML, MySQL, Javascript

## **Relevant Coursework**

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Data Mining and Knowledge Discovery  
Introduction to Western Arts

\*Machine Learning for Signal Processing  
Probability and Statistics

Engineering Graphics  
Partial Differential Equations

## **Miscellaneous**

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- Junior Executive at Udghosh, Annual Sports Fest
- Performed Mime and Street Play in Galaxy'18, Annual Inter Hostel Cultural Festival
- Performed Mime in Galaxy'19