

Ankan Das

THIRD YEAR UNDERGRADUATE · ELECTRICAL ENGINEERING

Indian Institute of Technology Kanpur

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Education

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

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

KV ONGC Agartala

Work Experience

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

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 'gerege' 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 'Shaghai' to a specified area and when the score is 50 points, decided by the orientation of Shaghai, the second bot climbs up a 'hill'.

Toy Bird

COURSE PROJECT, PROF. SUDHANSHU 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

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

Programming C, Arduino, Python

Web HTML, MySQL, Javascript

Relevant Coursework

Data Mining and Knowledge
Discovery
Introduction to Western Arts

*Machine Learning for Signal
Processing
Probability and Statistics

Engineering Graphics
Partial Differential Equations

Miscellaneous

- 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