Ankan **Das**

Third Year Undergraduate · Electrical Engineering

Indian Institute of Technology Kanpur

(+91) 9862-77-2481 | dasankan81@gmail.com | Ankan-Das | live:dasankan84

Education

Bachelor of Technology   *IIT Kanpur*
Major in Electrical Engineering, IIT Kanpur   *July. 2017 - till date*

Matriculation and Post Matriculation   *Agartala*
Kendriya Vidyalaya ONGC Agartala   *April 2005 - March 2017*
Score: *9.8* and *91.4%* respectively

Honors & Awards

2015   **KVS JMO**, *All India Rank 28 and Regional Rank 2*   *KV ONGC Agartala*
2015   **NTSE level 1 Scholarship Awardee**, Government of India   *India*

Work Experience

Internet of Things, Prof. L Behera   *IIT Kanpur*
Intern, Mentor   *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   *IIT Kanpur*
Course Project, Prof. Faiz Hamid   *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*.
- Successfully generated a model which *predicted* the fuel required in the next case with an accuracy of 65%.

ABU Robocon 2019, GREAT URTUU   *IIT Kanpur*
Member, Team Robocon IIT Kanpur, Prof. Ashish Dutta   *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. The second bot proceeds like a horse, hence Jensen Mechanism had been 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 pionts(decided by the orientation of Shaghai), the second bot climbs up a 'Hill'.

Toy Bird   *IIT Kanpur*
Course Project, Prof. Sudhanshu Singh   *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 *IIT Kanpur*

Course Project, Prof. Shantanu Bhattacharya *Feb. 2019 - Apr. 2019*

- Made a 'Stamping Machine' applying the concept of *Rotatory to linear oscillation transfer* using 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 form different sports

Dramatics Club Member,Fursat Mandli,IIT Kanpur *Aug. 2017 - April. 2018*

- Performed in several *Mimes* and *Street Plays* while representing the Hall in Inter-Hall competitions and also the Dramatics Club in Dram-Eve.

Skills

Programming	Python, Octave, C, MySQL, Arduino, HTML, JavaScript
Data Analysis	Worked with Python libraries- Numpy, Pandas, Matplotlib and dealt with real datasets on Kaggle
Utilities	Git, LaTeX, MS Office

Relevant Coursework

Machine Learning for Signal Processing*

Data Mining and Knowledge Discovery

Engineering Graphics

Probability and Statistics

Data Structures & Algorithms*

Principles of Communication*

Microelectronics

Introduction to Western Arts

Engineering Graphics

∗: *Ongoing course*

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