

Ashish Pol
CPI : XX.XX
B. Tech. Electrical Engineering(2023)

UG Second Year
Roll No : 190070011
DOB : 05/10/2001

Scholastic Achievements

- Secured **All India Rank 212** in JEE-Advanced 2019 among 200,000 candidates. (2019)
- Secured **All India Rank 347** in JEE-Mains 2019 out of over 1,000,000 candidates. (2019)
- Received **Kishore Vaigyanik Protsahan Yojna (KVPY) 2018** scholarship from the Department of Science and Technology, Govt. of India (2018)
- Ranked amongst top 1 percent in from state in National Standard Examination in Physics (NSEP) (2018)

Course Projects

DC Power Supply Circuit

Prof. Joseph John, EE113, Autumn 2019

- Created a design for the working of the circuit in **matlab**
- Soldered the circuit components on a breadboard with working **opamps** which could light two bulbs according to the DC voltage applied.
- Incorporated **Capacitors, Relays and Transistors** so that the circuit could also run AC voltage.

Hysteresis Loop Generator

Prof. Himanshu Bahirat, EE114, 2020

- Takes input of Volage, number of turns and B - H curve points and returns the **Hysteresis loop** as the result.
- Incorporated the generation of the **Hysteresis loss** using reverse magenitization equations.
- Authenticity and real world workabilty of the data provided was tested by comparing it with a database of the workable B - H curve points corresponding to number of turns and possible voltages.

Admittance matrix Y Generator

Prof. Himanshu Bahirat, EE114, 2020

- Takes input of all the resistors, A-C or D-C sources, Impedances involved in the circuit in the form of a Netlist.
- Returns the Y-matrix along with all the losses generated in the components.
- The program also generated a better circuit with the component provided which made the least possible heat loss using eigenvalues of the matrices generated.

Technical Skills

- **Programming Skills** : C++, Python, Java
- **Web Development** : HTML, CSS, JavaScript
- **Database** : MySQL, Tableau
- **Softwares** : AutoCAD, Solidworks, , OpenCV, Selenium, Adobe Photoshop and Illustrator

Position of Responsibility

Coordinator — Mood Indigo Hospitality (2020)

- Part of 50+ team working in on the hospitality and services section of Mood Indigo student group.
- Worked as an organizer from Day 0 to Day 5 on Mood Indigo 2020 helping poeple in accomodation.
- Gathered several sponsors for the Mood Indgo 2021 who were ready to sponsor of accomoda-tion of incoming people on Day 0 of Mood Indigo.

Coordinator — Mood Indigo marketing (2020)

- Part of 20+ team working in on the marketing team of Mood Indigo 2021.
- Worked as an organizer before Mood Indigo 2020 to help gathering sponsors for the event.
- Gathered several sponsorship companies for the Mood Indgo 2021.

Summer Projects

Dino Game AI Summer 2020

- Created an AI using Deep Reinforcemnet Learning which could learn to play the Chrome Dino Game.
- Implemented Prerequisites such as Selenium(browser test control) and OpenCV (image processing) in python
- Interfaced the DQN and Double DQN neural networks on the game which returned fairly high success rates for 3-4 days of running the networks on the game.
- Later implemented the networks on the pre-made OpenAI environments of atari games and Lunar moon lander.

Extra Curricular Activities

- Participed and secured **Third rank** in the **NSO Swimming Championship** of 2019 in the college. (2019)
- Participed and secured **Fifth rank** in the **NSO Swimming Championship** of 2020 in the college. (2020)
- Marched in the Republic Day Camp (RDC) of 2016-2017 during High School. (2016-2017)