

Jasnoor Singh

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Education

Indian Institute of Technology Ropar

Punjab, India

B.TECH IN ELECTRICAL ENGINEERING : 7.97 / 10

July 2018 - May 2022(Expected)

- **Courses :** Introduction to Computing and Data Structures, Algorithms and Data Structures, Databases, Calculus, Linear Algebra,, Differential Calculus, Digital Logic Design, Signals and Systems, Professional Communication, Probability & Stochastic, Circuit Theory, Micro & Macro Economics, Financial Markets, Data Science

Central Board of Secondary Education

INTERMEDIATE : 90.2%

MATRICULATION : 10/10

2018

Skills

Programming Languages	C/C++, Python, Matlab, Octave
Development	OOP, Relational Databases(SQL)
Frameworks/Libraries	NumPy, Matplotlib, Tensorflow, Pandas, Seaborn
Software/ Tool/ OS	GitHub, Linux(Ubuntu), MS Office
Others	Machine Learning, Financial Markets, Macroeconomics, Arduino IDE

Internships

AI Engineer

OTSUKA CORP, TOKYO

May 2021 - July 2021

- To develop AI solutions for B2B as well as consumer applications.
- Development a complete object detection AI model with application on AWS.

Undergraduate Researcher

INDIAN INSTITUTE OF TECHNOLOGY ROPAR

May 2019 - July 2019

- Researched on ways to make an Electric Vehicle smarter using computers and dedicated programs.
- Implemented C code to create the Internet of Things network of the vehicle.

Projects

Project Eye

TINKERING LAB

Mar 2020 - May 2020

- Using Ultra Violet and Infrared sensors to detect the presence of an object and its temperature while alerting the person accordingly.
- Using Computer Vision(YOLO) and Machine learning to classify obstacles for differently able citizens with Jetson Nano. : **Github**

Faculty Management Portal

DR. V GUNTURI

Jan 2021 - May 2021

- Complete faculty management portal with leave application, faculty appointment and project management functionalities along with a feedback system for applications.
- Developed using both MySQL and MongoDB for database, PHP for backend, and html and css were used for frontend.: **Github**

Rugby Bot

ROBOCON

May 2019 - Jan 2020

- Managed a team of 20+ students for Asia's Biggest Robotics Competition
- Developed C-based programs to control the motion of the vehicle based on input from different sensors.: **Github**

Other Projects

SELF

- Researched and implemented complete functionalities of a contact book using C
- Implemented code for Minimum Cost Arborescence with C++
- Real-time acceleration plotting system using a gyroscopic sensor.
- Modeled a smart irrigation system using IoT.
- Implemented multiple ML algorithms using MATLAB.
- Developed phone controlled bots for inter-college contests.
- Developed user interface for speed control of electric vehicle motor drive.
- Worked on a research paper involving the use of Neural Networks for Circuit Design.

Positions of Responsibility

2018-2020 **Coordinator**, Robotics IIT Ropar - Responsible for Project Management, Event Conduction, etc.

2019-20 **Representative**, Music Band IIT Ropar - Responsible for team management and musical activities in the campus.

2018,19,20 **Convener**, College Fests - Competitive Events & Hospitality in Zeitgeist 2019, Exhibition in Advitiya 2019, Robotics in Advitiya 2020

Miscellaneous

2016-17 **AISEE Scholar**, Secured merit in AISEE 2018-19

2020 **Facebook Hackercup 2020**, Completed Facebook Hackercup 2020 Challenge

2018-20 **Robotics Club**, Senior Member of Club, Represented Club in various competitions.

2019 **MUN, IIT Ropar**, Participated in inter-college MUN, held at IIT Ropar.

2019 **Business Modelling**, Made it to the national level pitching at StartUp India,2019. Participated in Inter IIT Tech Meet

2019 **Sports**, Winner at IYSC Championship in Basketball.

2018 **SAE BAJA**, Volunteered for SAE-BAJA 200, IIT Ropar.

2019 **Pehchaan**, Volunteered as a teacher for Pehchaan NGO.