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, Database Management Systems, Calculus, Linear Algebra,, Differential Calculus, Digital Logic Design, Signals and Systems, Professional Communication, Probability & Stochastic, Circuit Theory, Micro & Macro Economics, Financial Markets, Fundamentals of Data Science

Central Board of Secondary Education

Intermediate : 90.2%   Matriculation : 10/10   *2018*

Skills

Programming Languages	C/C++, Python, Matlab, Octave, PHP*
Development	OOP, Database Management, HTML*, CSS*
Frameworks/Libraries	NumPy, Matplotlib, Tensorflow, Pandas, Seaborn
Software/ Tool/ OS	AWS, GitHub, Linux(Ubuntu), MS Office
Others	Machine Learning, Financial Markets, 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

Database Management Systems *Jan 2021 - May 2021*

- Developed a Portal to manage the leave and project applications filed by Faculties.
- Took care of budgets, constraints. Implemented the Back-End, Front-End and DBMS. **Github**

Virtual Classroom

Development Engineering Project *Mar 2021 - Apr 2021*

- Developed a Portal to manage the faculty, TA and student interactions for the lab courses.
- Provided features including attendance management, student addition, submission and grading etc. **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.