



Jasnoor Singh

B.Tech in Electrical Engineering
Indian Institute Of Technology, Ropar

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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	7.97 (Till 6th Sem)	2018-2022
Senior Secondary	Central Board of Secondary Education	90.4%	2018
Secondary	Central Board of Secondary Education	10.0	2016

EXPERIENCE

- Otsuka Corporation** *June 2021 - July 2021*
SDE Intern Tokyo - WFH
 - Worked as a Software Development Engineering Intern in the Marketing Automation Department.
 - Defined and Developed a Computer Vision application for crowd monitoring and control using Python, Flask and Node.
- Indian Institute of Technology Ropar** *May 2019 - July 2019*
Research Intern Ropar
 - Developed software for the motion controllers of smart electric vehicles for high efficacy.
 - Helped in the development of a real time environment monitoring system of the vehicle for higher safety standards.

PROJECTS

- Faculty Leave and Projects Management** *Mar 2021 - Apr 2021*
Database Management Systems **Github**
 - Developed a Portal to manage the status, leave and project applications filed by Faculties.
 - Took care of budgets and other constraints. Implemented the Back-End, Front-End and DBMS.
- Virtual Classroom** *Mar 2021 - Apr 2021*
Development Engineering Project **Github**
 - 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.
- Traffic Analysis and Management** *Feb 2021 - May 2021*
B.Tech Project
 - Developing AI model to identify and analyse the vehicles at a traffic junction using Computer Vision.
 - Using the analysis to efficiently route the traffic accordingly thus saving both time and energy.
- Other Projects** *Jan 2020 - May 2021*
Self **Github**
 - Project Eye: Developed a blind assistance kit made using Computer Vision for aid in locomotion.
 - Implemented the code for Minimum Cost Arborescence with C++ from scratch.
 - Modeled a feedback based smart irrigation system using IoT for agricultural applications.
 - Real-time acceleration plotting system using a micro controller and motion sensors.

TECHNICAL SKILLS

- Programming Languages:** C/C++, Python, PHP*
- Development:** HTML, CSS*, OOP*, Database Management
- Others:** Machine Learning, Computer Vision, Git, Arduino, MS Office, Financial Markets * Working Proficiency

KEY COURSES TAKEN

- CSE & Maths:** Algorithms & Data Structures, DBMS, Data Science, Advanced Algebra, Probability & Statistics, Calculus
- Others:** Digital Logic Design, Signal & Systems, Macro & Micro Economics, Professional Communication

POSITIONS OF RESPONSIBILITY

- Head Robotics Coordinator**, Robotics Club, IIT Ropar - Managing all the 2020-21 Robotics activities
- Junior Representative**, Alankar, IIT Ropar - Responsible for Crew Management, Club Activities, etc.
- Convener**, College Fests - Technical Events & Sponsorship in Advitiya, Robotics Events & Guest Talks in Advitiya

MISCELLANEOUS

- StartUp India Drive**, Regional level runner up and college level winner at StartUp pitching contest. *2018*
- Robotics Club**, Head Coordinator, Represented Club in various competitions & Inter IIT Tech Meet. *2019*
- ABU Robocon**, Led the team that got selected for national rounds of one of the biggest robotics contest. *2020*
- Sports**, Winner at IYSC Basketball Championship. *2018*
- SAE BAJA**, Volunteered in national level BAHA event held at IIT Ropar. *2019*
- MUN, IIT Ropar**, Representative at model united nations, IIT Ropar. *2019*
- Social Service**, Member of the National Social Service and participated in Rescue drive during 2019 floods. *2018-20*
- Volunteer**, Volunteer for Pehchaan - Ek Safar NGO and educated under-privileged children. *2019*