

# Jagnoor Singh Marok

Bachelor of Technology

Computer Science and Engineering

National Institute of Technology, Jalandhar

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[github.com/JagnoorMarok](https://github.com/JagnoorMarok)

## EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., CSE	National Institute of Technology, Jalandhar	6.82	2022 to 2024
Senior Secondary	CBSE	89%	2022
Secondary	CBSE	91%	2020

## EXPERIENCE

- Indian Institute of Technology, Hyderabad**  
*Research Intern*  
*December 2023 - January 2024*  
Hyderabad, India
  - Developed a GUI for studying the impact of various stimuli on bio signals.
  - Utilizing the Biosignals Plux device, I programmed a multi-modal data acquisition system with parallel processing, which increased the speed by 50%
  - Collaborating in a team of four, I played a key role in designing an intuitive GUI for streamlined data analysis and ensuring real-time processing of diverse bio-signals.

## PROJECTS

- Sports Center Management**  
*Tools: C++ (Object Oriented Programming)*
  - Engineered a comprehensive sports management console application utilizing object-oriented programming principles; streamlined inventory tracking processes and improved organization efficiency, resulting in a 30% reduction in inventory discrepancies.
- Emotion Detection**  
*Tools: Python, TensorFlow, OpenCV*
  - An emotion detection model leveraging the powerful capabilities of OpenCV for image processing and TensorFlow for deep learning.
  - Designed to accurately identify and classify human emotions based on facial expressions, achieving a 96% accuracy rate.
- Portfolio Website**  
*Tools: Python, Django, Sqlite*
  - Developed a personal portfolio website using Django, integrating models to manage and update my resume directly through the Django admin interface, resulting in a 70% reduction in update time
  - Utilized SQLite, Django's built-in database, for data storage, efficiently managing over 20 content entries on the site."

## SKILLS

- Programming Languages:** C, C++, C#, Python, Lua
- Tools/Frameworks/Libraries:** HTML, CSS, JavaScript, ReactJs, NodeJs, Django, Pandas, NumPy, TensorFlow, FireBase, SFML, Love2D, OpenCV
- Technologies:** Software Development, Game Development, Web Development, Data Structures, Algorithms, Machine Learning, Artificial Intelligence, Data Science, Deep Learning, UI/UX

## POSITIONS OF RESPONSIBILITY

- Member, CSE Alumni Relation Club, NITJ**  
*Jan 2024 - Present*
  - Key roles include fostering alumni engagement through organizing and attending impacting sessions with esteemed alumni, managing the alumni database, and enhancing the website with strategic updates.
  - Recent tasks include automation of emails and developing web portals for alumni data collection.
- Member, Opengeest, NITJ**  
*Jan 2024 - Present*
  - Key roles Includes organizing various sessions to promote senior-junior interaction and developing a coding-culture environment in our institute.
  - Helped organize 4 successful senior-junior interactions sessions till date