



**Nitesh Kumar**  
Bachelor of Technology  
in Computer Science and Engineering  
Indian Institute Of Technology, Ropar

+91-8769443433  
1niteshgurjar3433@gmail.com  
GitHub  
Linkedin

## EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	6.8 (Till 7th Sem)	2021-2025
Senior Secondary	Central Board of Secondary Education	97%	2021
Secondary	Central Board of Secondary Education	95%	2019

## EXPERIENCE

- Easecruit** May 2024 - June 2024  
*Software Developer Intern*
  - Created a resume parser with Node.js and React, converting resumes into structured JSON for improved data management.
  - Utilized LLMs to extract essential details such as links, repositories, and GitHub stats, optimizing parsing accuracy.
  - Enhanced backend efficiency, processing over 100 resumes in under 15 seconds, improving cost-effectiveness and search accuracy.

## PROJECTS

- Buffalo Recognition & Re-Identification** Sept. 2024 - Present  
*Python, TensorFlow, Keras, Neural Network* **GitHub**
  - Designed and trained an autoencoder-based deep learning model for buffalo identification using muzzle image recognition.
  - Deployed the model in a real-time application to enable accurate verification and re-identification of buffaloes.
  - Partnered with NDRI and implemented a database system to store and manage buffalo records for efficient tracking and retrieval.
- AI Chessbot** March 2025 - April 2025  
*Python, Deep Learning* **GitHub**
  - Fine-tuned a pretrained chess model based on the AlphaZero architecture using PyTorch and transfer learning techniques.
  - Processed PGN files to extract board positions and move histories, converting them into tensor formats suitable for neural network input.
  - Adapted the LCZero-inspired architecture to improve gameplay prediction and strategy learning on custom datasets.
- Dish Suggester** Jan. 2025 - March 2025  
*LLM, API, Streamlit, MongoDB* **GitHub**
  - Built an AI-powered recipe suggestion app using Streamlit that accepts both text and image inputs to identify ingredients.
  - Integrated Groq Vision API for real-time ingredient detection from images and used the LLaMA model for generating personalized recipes.
  - Implemented MongoDB with GridFS for efficient temporary storage and retrieval of uploaded images during processing.
- Quick Event** Jan. 2024 - March 2024  
*Python, ML, NLP, Llama-2, Google API, LLM* **GitHub**
  - Developed a chatbot powered by the LLaMA-2 model to provide personalized assistance using both text and voice input via natural language processing.
  - Integrated Google Calendar API to automate event scheduling and reminder creation through natural conversations.
  - Utilized NLP, voice processing, and full-stack development skills to build an intuitive solution for real-world scheduling tasks.

## TECHNICAL SKILLS

- Programming Languages:** C/C++, HTML/CSS, Javascript, Python, SQL, MySQL, RISC-V
- Web Development:** React.js, Node.js, Express, MongoDB
- Data Science:** Python Programming, Numpy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Keras, R
- Developer Tools and other:** VS Code, Git, GitHub, Linux, Jupyter Notebook, Google Colab, Excel
- Key Courses Taken:** Data Structures and Algorithms, Discrete Mathematics, Computer Architecture, Operating Systems, Database Management System, Computer Networks, Blockchain, Artificial Neural Network, Calculus, Linear Algebra, Probability & Statistics, Foundation of Data Science, Applied Statistics, etc.

## POSITIONS OF RESPONSIBILITY

- Secretary**, Outdoor Adventure Club, IIT Ropar Oct. 2024 - Current
- Head Organizer for 5km and 11km Marathon**, Outdoor Adventure Club, IIT Ropar Sept. 2024 - Oct. 2024
- Team Lead**, Techno-Cultural Fest, Hospitality Team, IIT Ropar Feb. 2023 - March 2023

## ACHIEVEMENTS

- UPSC-NDA**, Qualified for SSB Interview 2021
- JEE**, Ranked in top 0.5% in JEE Mains and Advanced 2021
- Inter IIT**, Quarter Finalist in 55th and 56th Inter IIT Sports Meet 2022
- Codeforces**, Expert | Handle: *Mr.BruceWayne* 2024