NAKUL

Bachelor of Technology
in Electrical Engineering
Indian Institute Of Technology, Ropar

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GitHub | Portfolio
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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	6.72 (Till 4th Sem)	2022-2026
Senior Secondary	Board of School Education Harayana	10	2021
Secondary	Board of School Education Harayana	9.8	2019

EXPERIENCE

- **Indian Institute of Technology**   *23 may 2024 to July 2024*
  Intern under prof. Brijesh Kumbani
  - Engaged in the development and implementation of a wireless communication radar system using FPGA technology.
  - Worked with 4x2 RFSoC hardware to enhance system performance and capabilities.
  - During this month, I gained introductory knowledge of the RFSoC board. I explored its functionality and performed a demo of its working.

- **ATL teacher training Program**   *finished in December 2023*
  With PES NGO and DC Ropar collaboration   **Certificate**
  - Conducted training sessions for over 50 teachers as part of the ATL (Atal Tinkering Lab) initiative.
  - Guided educators on effectively utilizing ATL materials to promote technology and science education among students.
  - Facilitated hands-on workshops to enhance teachers' proficiency in implementing innovative teaching methods.

PROJECTS

- **LORA communication shield for mobile phone**   *2024*
  Tinkering Lab GE-107   **Github**
  - it involves developing a communication shield that enables Long Range (LoRa) communication capabilities for mobile phones. It extends the communication range of mobile devices using LoRa technology, facilitating long-distance data transmission.

- **Span Email Prediction**   *2024*
  Self assigned   **Github**
  - Developed a machine learning model to classify emails as spam or non-spam using logistic regression. This project involved extensive data preprocessing, feature selection, model training, and evaluation, culminating in a robust spam detection system.
  - Tools and Technologies Programming Language: Python Libraries: Scikit-learn, Pandas, Numpy, NLTK/Spacy
  - Achievements: Successfully developed a logistic regression model with high accuracy in spam detection.

- **Education Bank: Gateway to Educational Empowerment**   *2024*
  HS202-Human-Geography-Societal-Needs   **Github**
  - This platform offers access to various free resources, including prominent platforms such as MIT OpenCourseWare and Swayam portal. Additionally, it provides links to AI tools designed to enhance students' learning experience, thereby facilitating their academic endeavors.
  - This website serves as a valuable resource for engineering students by offering comprehensive study notes tailored to their academic needs.

TECHNICAL SKILLS

- **Programming Languages**: introduction to Computing and Data structure in C/C++
- **Other**: Public Speaking, Communication

KEY COURSES TAKEN

- **Electronics**: Signals ans Systems, Basic Electronics,Circuit Theory, Electromechanics
- **Math**: Probability and Stochastic Processes, Differential Equations

POSITIONS OF RESPONSIBILITY

- **Leadership Role in PES Outreach Team**,   *2024 - 2025*
  •Session Coordination and Planning, Quality Assurance through Demo Sessions,Motivating and Mentoring Team Members, Promoting Outreach and Impact

MISCELLANEOUS

- **Member oF ATL's MISSION**, ATL's Labs Renovation with partnership of MLA and PES.   *2022-2023*

- **Volunteer of the month**, Certified as the volunteer of the month, by Pehchaan Ek Safar, IIT Ropar   *2023*