

VISHAL RAJ

📍 Patna, Bihar, India ✉ 21ec3009@rgipt.ac.in 📞 6206493860 🌐 <https://www.linkedin.com/in/vishal-raj-05b37b1a4>

SUMMARY

Hi, I'm Vishal Raj currently pursuing Electronics Engineering at Rajiv Gandhi Institute of Petroleum Technology. I'm passionate about learning, teaching and the open flow of knowledge. I want to help build new and innovative things that solve real world problems on a large scale. I Qualified JEE Advanced (among the top 2%) and JEE Mains. I achieved a Dept. Rank 9 overall in Department of Electrical & Electronics Engineering, RGIPT.

I'm well-versed in programming languages, especially Python, which I use extensively in my projects and research work. I have keen interest in data science, applications of AI/ML especially in security and robustness of communication system and other potential application also. I'm excited about the potential of AI/ML to transform the world and believe that my skills, knowledge and dedication will allow me to make a meaningful contribution to this field.

EXPERIENCE

Training

Airport Authority Of India

May 2023 - June 2023, Patna, Bihar

- Understood the working and the principle of Communication, Navigation and Surveillance (CNS) equipment used on airport such as ILS, RADAR, TRANSMITTER, DME, VHF etc.
- Taken hands on experience of LINUX and Information Technology (IT) application in their operational-and managerial activity at Airport.
- Understood the application and use of Computer Networking in Airport.

Training

ALL INDIA RADIO

December 2022 - December 2022, Patna, Bihar

- Got hands on experience of Basic Techniques of Radio Production and Transmission at All India RADIO.
- Overall at last understand the working and the principles of Transmitter, Filter and Receiver.

PROJECTS

Application of ML for detecting SSDF attack in Cognitive Radio Systems

Rajiv Gandhi Institute Of Petroleum Technology • May 2023 - Present

- Working on an algorithm based on Proximal Policy Optimization (PPO) to defend against SSDF attack.
- Working on application of ML on the smaller overlapping groups of SU (Secondary User) energy data, thereby increasing the detection performance particularly for multiple malicious users (MUs)

FLEXIBLE LITHIUM ION BATTERY

Rajiv Gandhi Institute Of Petroleum Technology • August 2022 - March 2023

- Studied about different ionic and polymeric materials which shows piezoelectric and pyroelectric effects.
- Developing a battery which is comparatively light in weight and durable.
- Can be used in to manufacture of wearable electronics, flexible electronics and implantable medical devices.

EDUCATION

Bachelor Of Technology In Electronics Engineering

Rajiv Gandhi Institute Of Technology • Amethi, Uttar Pradesh • 2025 • 7.4 CGPA (till 4th semester)

Intermediate

St Karen's High School • Patna, Bihar • 2021 • 86./.

Matriculation

St Karen's High School • Patna, Bihar • 2019 • 87./.

INVOLVEMENT

Media And Outreach Development Coordinator

Rajiv Gandhi Institute Of Petroleum Technology • ARPAN • May 2023 - Present

- Organizing outreach events, including sales, marketing, and planning, to promote the services of the organization and receive donations.
- Research, write, proofread and edit all content, and plan and execute all media and advertising campaigns.

Operations And Logistics Head

Jais, UP • IEEE, RGIPT • December 2022 - Present

- Operations and logistics focuses on making sure that the right amount and quality of materials and goods are produced and delivered to the correct recipients according to schedule.

· The work involves production and service operations, with operations and logistics workers responsible for managing the supply chain, from purchasing raw materials to the production cycle to end delivery.

SKILLS

- **Programming Languages** : C,PYTHON
- **Software Packages**: MATLAB (BASIC PURPOSE ONLY), AutoCAD
- **Hardware Description Language** : Verilog(learning)
- **Platforms** : Arduino, Windows, LINUX
- **EDA Tools**: PSpice
- **Soft Skills**: Leadership, Event Management, Communication skills (English and Hindi- read, write and speaking)