Raman Singh

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NIT·PATNA
श्रमोऽनवरत चेतोय
National Institute of Technology Patna

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., EE	National Institute of Technology, Patna	7.32	April 2025
Senior Secondary	Ebenezer Hr Sec School, Gwalior	86.6	May 2023
Secondary	Oasis Sainik School, Pilibangan	93.6	August 2023

EXPERIENCE

- **Internslite [🌐]**   *August 2024 - October 2024*
  Intern - Cyber security
  ◦ Engaged in Web Application Penetration Testing to identify vulnerabilities and enhance security measures.
  ◦ Conducted security assessments, vulnerability analysis, and provided actionable recommendations.
  ◦ Contributed to ensuring compliance with industry security standards and best practices.
  ◦ Gained hands-on experience with tools like [e.g., HTTrack,SQL Injection,Hydra,Dos and D Dos attack].

- **DEF-SPACE Winter Internship | Bharat Space Education Research Centre[🌐]**   *Dec 2025 - Jan 2026*
  Intern
  ◦ Selected for a national-level internship focused on space and defense technologies.
  ◦ Gained exposure to aerospace concepts, STEM innovation, and research methodology.
  ◦ Learned basics of Aircraft Design Technologies,Robotics,Advanced Drone Technologies and Rocketry
  ◦ Strengthened analytical thinking and problem-solving skills through technical discussions and activities.

PROJECTS

- **Movie Recommendation System**   *May 2025 - March 2025*
  Tools: Jupyter,Tensor flow Pycharm, Streamlit,Python librarys   [🔗]
  ◦ Designed and implemented a movie recommendation system using collaborative and content-based filtering techniques
  ◦ Analyzed user preferences and behavior to enhance recommendation accuracy
  ◦ Utilized tools and frameworks such as Python, NumPy, pandas, scikit-learn, TensorFlow.
  ◦ Developed algorithms to process large datasets and generate personalized movie suggestions.

- **Chatbot using ML and NLP**   *october 2024*
  Tools: Python, NLP, Scikit-learn, NLTK, Streamlit/Flask ,pandas,numpy   [🔗]
  ◦ Built an intelligent chatbot using Machine Learning and NLP for intent-based conversation handling.
  ◦ Applied text preprocessing and TF-IDF vectorization for feature extraction.
  ◦ Trained classification models to identify user intent and generate appropriate responses.
  ◦ Evaluated and optimized the model using standard performance metrics.
  ◦ Deployed the chatbot using Streamlit / Flask for real-time interaction

- **Voice Assisted Switch Board (Minor Project)**   *January 2026*
  Tools: Microcontroller (Arduino), Relay Modules, Voice Recognition Module / Smartphone App
  ◦ Designed and implemented a voice-controlled electrical switch board to operate home appliances using voice commands.
  ◦ Integrated microcontroller with relay modules to safely control AC loads such as lights and fans.
  ◦ speech recognition to convert voice commands into control signals, enabling hands-free operation.
  ◦ Ensured electrical isolation and user safety through proper relay interfacing and circuit protection.
  ◦ Demonstrated application of electrical control systems and embedded systems in home automation

SKILLS

- **Programming Languages**: C++, Java, Python, HTML5, CSS, mySQL
- **Technologies**: Basics of Kali Linux, Networking, Data Analytics, Machine Learning
- **Tools**: Jupyter, Pycharm, Streamlit Python library

CERTIFICATIONS

- **Interslite**, Certificate of intership   *October 2024*
- **Interslite**, Certification of training   *October 2024*

ACHIEVEMENTS

- Winner in Business Case study at IIT Kharagpur
- Cleared NDA written and got conference out mutiple times
- Runner up in Football District Level
- Successfully completed internship and training at Internslite
- leading member in fintech startup(Bountify)

POSITIONS OF RESPONSIBILITY

- **Public Relation Member,** Hackslash, NITP   *October 2024*
- **Public Relation Member,** Think India, NITP   *February 2024*
- **Relationship Head,** Bountify pvt Ltd   *May 2024*