

NISHITA RANA

+91-6396573467

nishitarana17@gmail.com

LinkedIn Profile

GitHub Profile

SKILLS

- **Programming Languages:** C++, Python, Java (*Beginner*)
- **Web Technologies:** HTML, CSS, JavaScript
- **Machine Learning:** Supervised & Unsupervised Learning, Deep Learning, Natural Language Processing (NLP)
- **Libraries & Frameworks:** TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, OpenCV
- **Coursework:** DBMS, OOPs, Data Structures & Algorithms, Computer Networks, Operating Systems
- **Soft Skills:** Creativity, Adaptability, Problem-Solving, Teamwork, Communication

WORK EXPERIENCE

IISER Bhopal | **Project: Human Action Recognition using CNN and LSTM**

May 2025 – July 2025

- Worked on a deep learning model to classify human actions from video sequences using CNN for spatial features and LSTM for temporal dynamics..
- Preprocessed UCF50 video dataset with techniques like **label encoding, normalization, segmentation, and one-hot encoding** for efficient model training
- Applied the model to classify activities such as walking, jogging, sitting, and climbing stairs, with applications in **healthcare and surveillance**.

PROJECTS

Personal Portfolio Website | HTML, CSS, Javascript

- Developed a responsive portfolio to showcase projects, skills, and contact info with a clean, modern UI.
- Implemented mobile-first design principles to ensure seamless viewing across devices.

Netflix Clone | HTML, CSS

[GitHub](#)

- Recreated Netflix's homepage with responsive layout and visually accurate UI components.
- Used HTML and CSS to replicate layout, styling, and responsive design.

IoT-Based Heart Rate Monitoring System | ESP8266, Blynk, Arduino, DFRobot Heart Rate Sensor

- **Designed a heart rate monitoring system with ML integration**, collecting over 2000 data points to train models for real-time health condition prediction.
- **Implemented feature extraction and continuous model updates**, improving predictive accuracy over time for early detection of potential cardiac anomalies.

Healthcare Chatbot (NLP-Based) | TensorFlow, Python, NLP, Jupyter, Keras

- Built an **AI-powered chatbot** using TensorFlow, NLP, and a **Feedforward Neural Network (FNN)** to assist users with healthcare queries.
- Trained and fine-tuned the model in **Jupyter Notebook**, achieving high accuracy with a small dataset.

EDUCATION

National Institute of Technology, Andhra Pradesh

B.Tech in Electronics and Communication Engineering

Graduation Year: 2026

CGPA: 7.13

Sacred Heart Convent School, Chandausi Moradabad, UP

ICSE Class 12: 93.75%

ICSE Class 10: 92.8%

ACHIEVEMENTS

- Maintained consistent academic performance with no backlogs.
- Participation in [SMART INDIA HACKATHON](#).
- **Leadership at AI & Robotics Club, NIT Andhra Pradesh:** Executive Member of the [Artificial Intelligence and Robotics Club, NIT Andhra Pradesh](#).
- DBMS [NPTEL Course](#).