


# Nitish Kumar

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## EDUCATION

<b>B.tech Computer Science and Engineering in Artificial Intelligence and Machine Learning</b>	05/2025 - present
Lakshmi Narain College of Technology	Bhopal, India
CGPA-8.5	
<b>NDPS, west Champaran</b>	2019 - 2020
10th CBSE - 93.2%	
<b>MSMPS, East Champaran</b>	2021 - 2022
12th CBSE - 69.2%	
	Bihar

## PROFESSIONAL EXPERIENCE

### Code For Change: AI Hackathon 2025

- Collaborated in a 4-member team to develop and deploy an AI-driven solution within a limited timeframe, demonstrating strong teamwork, rapid prototyping, and problem-solving skills.
- Contributed to the end-to-end development cycle, including data preprocessing, model building, and integration into a functional prototype.

### GirlScript Summer of Code – Contributor & Campus Ambassador | November 2024

- Contributed to real-world open-source projects as part of a 3-month-long coding program.
- Promoted open-source culture on campus and supported peer engagement in the community.

### FOSSILE Hackathon – IIT Bombay | 2024

- Participated solo in a national-level hackathon focused on open-source innovation and software sustainability.
- Focused on leveraging open-source tools to address real-world environmental and societal challenges.

## SKILLS

**Python** | **Artificial Intelligence**- Machine Learning | **Streamlit** | **MySQL** | **Tkinter**  
**Web Development** — HTML, CSS, JavaScript, Express.JS, Node.JS, MongoDB

## PROJECTS

### Energy Forecasting Using Machine Learning

- Developed a model to predict daily city-level energy consumption using historical data and temperature trends with Random Forest, XGBoost, and Linear Regression.
- Built a Flask API backend for predictions and database storage, alongside a Streamlit frontend for interactive inputs and visualization.

### Health Diagnosis System

- Developed a Tkinter-based health diagnosis system that predicts diseases from user-selected symptoms using a Random Forest classifier.
- Implemented a multi-label symptom encoding pipeline and trained the model on real-world medical data.
- Provided an interactive GUI with dropdowns for symptoms and location, displaying prediction results and visualizing top disease probabilities.

### Desktop Assistant

- Developed a voice-activated assistant using Python that listens to user commands and responds with speech.
- Features include fetching weather updates, telling jokes, and reading news based on voice input.
- Utilizes speech recognition, text-to-speech, and external APIs for real-time information and interaction.

## EXTRACURRICULAR

### Hackathon Club – LNCT

- Actively participate in coding sessions, hackathons, and innovation challenges within the club.
- Collaborate with peers to build creative tech solutions and enhance problem-solving skills.