

# Pranav Thakur

tpranav201@gmail.com • 8120287216

<https://www.linkedin.com/in/pranav-thakur-505677266>

<https://github.com/Nikkku09>

## SKILLS

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**Programming languages:** Python, C/C++, JavaScript, HTML, CSS

**Core CS Concepts:** Data Structures, Algorithms, Object-Oriented Programming, Time & Space Complexity

**Computer software/ frameworks:** TensorFlow, Keras, OpenCV, NumPy, Pandas, Selenium, BeautifulSoup, Arduino IDE, Visual Studio Code, Git, GitHub, Linux, Kali Linux

**Database & Backend:** MySQL, phpMyAdmin, MongoDB

## PROJECTS & EXTRACURRICULAR

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### Handwriting text recognition (HTR) (MARCH 2024)

- Built an AI model for handwritten text recognition using CNN & RNN with CTC loss
- Preprocessed datasets using OpenCV and NumPy for noise reduction and text segmentation.

### Arduino Based Temperature and Voltage Monitor for Class AB Power Amplifier -2023

- Designed a real-time monitoring system for temperature and voltage in a Class AB power amplifier using Arduino.

### Browser Automation Bot (2024) -2024

- Developed a Python-based bot to automate repetitive tasks in a web browser.
- Used Selenium & BeautifulSoup for automated form filling, data entry, and web

### Interactions. Research Paper: Handwritten Text Recognition

- IJSRD - International Journal for Scientific Research & Development | Vol. 12, Issue 4, 2024 | ISSN (online): 2321-0613
- Authored a research paper on Handwritten Text Recognition (HTR) using Neural Networks.
- Explored the effectiveness of CNN, RNN, and CTC loss in improving text recognition accuracy.

### Event Management System -2025

- Built a full-stack web app using Node.js, Express, and MongoDB to create, update, and manage Events Implemented RESTful APIs with CRUD operations, event completion tracking, and responsive front-end.

## EDUCATION

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### B.Tech (Bachelor) In Computer Science and Engineering

Lakshmi Narain College of Technology Bhopal

2024 - Present

### Diploma In Computer Science and Engineering

Govt. Polytechnic College Betul

### Higher Secondary school certificate (12th)

Year 2021

CGPA -8.3/10

### Secondary school certificate (10th)

Year 2019

CGPA- 7.86/10