# Kshitij Mandal

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## EDUCATION

**B.Tech – Computer Science with specialization in Artificial Intelligence and Machine Learning**
Vellore Institute of Technology, Bhopal — Sept 2022 - Current
GPA – 8.9

**Higher Secondary**
Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE) — 2021
Percentage – 89

**Secondary**
Indian Certificate of Secondary Education (ICSE) — 2019
Percentage - 87

## SKILLS SUMMARY

- **Languages**: Java, Python, JavaScript, CSS, HTML
- **Frameworks**: Django
- **Platforms**: PyCharm, Jupyter Notebook, Visual Studio Code, Intellij IDEA
- **Database**: SQL, DBMS, MYSQL, OOPS
- **Other Skills**: Data Structure, Algorithms, Problem Solving
- **Tools** :MATLAB, Tableau, OpenCV, MS Office

## WORK EXPERIENCE

**SDE INTERN | ITJOBXS** — **October 2024 - December 2024**

- Contributed to the design and development of a fully responsive web interface for a specific section of itjobxs.com.
- Engineered solutions for user verification and authentication, addressing challenges in detecting and eliminating fake bots and posts.
- Integrated Google reCAPTCHA to enhance website security and protect against automated threats.
- Technologies Used: HTML, CSS, JavaScript, Bootstrap, PHP, MySQL.

## PROJECTS

**Qurious – Anonymous Q&A Web Platform | LINK** — **April 2025**

- Built a feature-rich web application that allows users to post questions and respond anonymously. Designed a clean and user-friendly interface with a dynamic highlights section on the homepage. Implemented core functionalities like question threads, anonymous replies, and responsive content display.
- Tech Stack: Backend: Django (Python), Frontend: HTML, Tailwind CSS, Database: SQLite, Other Tools: Django Signals, Forms, Templates.

**ASL to Text Converter | LINK** — **February 2025**

- Developed a real-time system for converting ASL gestures into text using a custom dataset and CNN model. The model detects A-Z gestures and distinguishes between confusing signs. Integrated the trained model with a Python GUI for live gesture recognition and text display.
- Tech Stack: Backend: Python, TensorFlow, Keras; Computer Vision: OpenCV; Image Processing: Pillow; Spell Checking: spellchecker; Frontend: Tkinter; Data Handling: NumPy.

**Smart Home Monitoring System using ESP8266 | LINK** — **March 2025**

- Built an IoT-based system using ESP8266, DHT11, and an IR sensor to monitor temperature, humidity, motion, and live weather data, with real-time mobile control and visualization through the Blynk app.
- Implemented dynamic LED indicators and alert mechanisms by integrating sensor data with API responses, showcasing practical use of embedded systems, IoT, and cloud-based mobile interfaces.
- Tech Stack: Hardware: NodeMCU ESP8266, DHT11 sensor, IR motion sensor, LEDs, IoT Platform: Blynk, Programming: C++ (Arduino IDE), API Integration: HTTP-based Weather API (for real-time weather data),Data Communication: Wi-Fi (ESP8266 HTTP requests, Blynk virtual pins)

## ACHIEVEMENTS

- Successfully shortlisted for the prestigious Solve'A'Thon competition held at VIT Chennai. Secured the 1st position among participants from VIT Bhopal Campus.
- CodeChef Rating - 1529 | Global Rank: 190 - Starters 164 2024
- 5 star badge in Java and Python on HackerRank.
- Solved 200+ DSA problems on various coding platforms