

# Kshitij Mandal

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## EDUCATION

<b>B.Tech – Computer Science with specialization in Artificial Intelligence and Machine Learning</b> Vellore Institute of Technology, Bhopal GPA – 8.91	Sept 2022 - Current
<b>Higher Secondary</b> Maharashtra State Board of Secondary and Higher Secondary Education (MSBSHSE) Percentage – 89	2021
<b>Secondary</b> Indian Certificate of Secondary Education (ICSE) Percentage - 87	2019

## 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

<b>SDE INTERN   ITJOBXS</b>	<b>October 2024 - December 2024</b>
<ul style="list-style-type: none"><li>○ Contributed to the design and development of a fully responsive web interface for a specific section of itjobxs.com.</li><li>○ Engineered solutions for user verification and authentication, addressing challenges in detecting and eliminating fake bots and posts.</li><li>○ Integrated Google reCAPTCHA to enhance website security and protect against automated threats.</li><li>○ Technologies Used: HTML, CSS, JavaScript, Bootstrap, PHP, MySQL.</li></ul>	

## PROJECTS

<b>Qurious – Anonymous Q&amp;A Web Platform   <a href="#">LINK</a></b>	<b>April 2024</b>
<ul style="list-style-type: none"><li>○ 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.</li><li>○ Tech Stack: Backend: Django (Python), Frontend: HTML, Tailwind CSS, Database: SQLite, Other Tools: Django Signals, Forms, Templates.</li></ul>	
<b>ASL to Text Converter   <a href="#">LINK</a></b>	<b>February 2024</b>
<ul style="list-style-type: none"><li>○ 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.</li><li>○ Tech Stack: Backend: Python, TensorFlow, Keras; Computer Vision: OpenCV; Image Processing: Pillow; Spell Checking: spellchecker; Frontend: Tkinter; Data Handling: NumPy.</li></ul>	
<b>Smart Home Monitoring System using ESP8266   <a href="#">LINK</a></b>	<b>March 2024</b>
<ul style="list-style-type: none"><li>○ 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.</li><li>○ 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.</li><li>○ 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)</li></ul>	

## 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