

ABHISHEK KUMAR PUNDIR

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SUMMARY

Innovative **AI and Full-Stack Developer** with expertise in the **MERN stack** and hands-on experience building **AI-driven, real-time web applications**. Skilled in **deep learning, NLP, and embedded systems integration**, with a strong focus on developing intelligent, scalable, and user-centered solutions.

PROJECTS

MindWell – Emotion-Aware AI Music Companion | *MERN, WebRTC, Tailwind, OpenAI API, TensorFlow* [\[GitHub\]](#)

- Developed a full-featured MERN platform integrating **two AI models** trained on **Kaggle’s FER2013 (Facial Emotion Recognition)** and **TESS Speech Dataset** for dual emotion detection via **face and voice**.
- Implemented **AI-driven music recommendations, chat, video/voice calling, notes, and friend locator map**.
- Integrated **OpenAI-powered emotion-aware chatbot** for real-time conversations and dynamic mood-based suggestions.
- Deployed production build on **MindWell** with optimized responsiveness and seamless UI/UX using TailwindCSS.

Personalized AI Voice Assistant | *Python, NLP, PyAutoGUI, PyWhatKit, OpenAI API* [\[GitHub\]](#)

- Created a fully functional **AI voice assistant** capable of executing system-level tasks, fetching data, and natural language conversation.
- Used **NLTK, SpeechRecognition, and pyttsx3** for speech processing and **OpenAI API** for contextual replies.
- Enabled **automation features** like app control, YouTube automation, messaging, and system monitoring using **PyAutoGUI, psutil, and os**.

Encrypted Morse Communication System | *Arduino Uno, Python, LCD, MAX9814 Mic, Serial Communication* [\[GitHub\]](#)

- Built an innovative hardware-software system for **secure text/audio transmission** using encrypted **Morse code signaling**.
- Integrated **Arduino Uno + LCD + MAX9814 Mic** for real-time Morse encoding/decoding with audio input.
- Developed a Python module to perform **text and speech-to-Morse conversion**, decryption, and display communication on hardware.

TECHNICAL SKILLS

- **Languages:** C, C++, Python, JavaScript, TypeScript
- **Frontend:** React, Next.js, Tailwind CSS, DaisyUI
- **Backend:** Node.js, Express.js, REST APIs, FastAPI, WebSockets
- **Database:** MongoDB, MySQL, SQLite
- **AI/ML:** Emotion Detection, NLP, Deep Learning (basics), OpenCV, Librosa, TensorFlow, Scikit-learn
- **Tools:** Git, Postman, VSCode, Linux, PyAutoGUI, PyWhatKit
- **Hardware:** Arduino Uno, LCD, MAX9814 Mic Module, Sensors, Motors

EDUCATION

Lovely Professional University
B.Tech in Computer Science and Engineering (AI/ML Specialization)
Divine Public School
High School, CBSE – Scored 93%

Phagwara, Punjab, India
2024 – Present
Faridabad, Haryana
2022

CERTIFICATES

- **DSA in Python (6 months)** – PW Skills: Advanced data structures, algorithms, and problem-solving. [\[View\]](#)
- **C Programming (48 hours)** – Infosys Springboard: In-depth understanding of C fundamentals, pointers, and modular programming. [\[View\]](#)
- **AI & Machine Learning, Cybersecurity** – Udemy: Core AI/ML concepts and practical security insights.

ACHIEVEMENTS

- Solved **200+ DSA problems** on LeetCode and **300+ problems** across GeeksforGeeks, HackerRank, and CodeTantara.
- Built and deployed multiple full-stack and AI-integrated projects demonstrating real-world applications.
- Consistently among top performers in collaborative coding and university hackathons.