



# Dhirendra Padmakar Singh

Email: [singhdhirendra8919@gmail.com](mailto:singhdhirendra8919@gmail.com)  
GitHub: [github.com/dhirendra-singh11](https://github.com/dhirendra-singh11)  
Portfolio: [dhirendra-singh11.github.io](https://dhirendra-singh11.github.io)

Phone: +91 8149384395  
LinkedIn: [linkedin.com/in/dhirendra-singh98](https://linkedin.com/in/dhirendra-singh98)

## Summary

Enthusiastic and detail-oriented Computer Science student with strong problem-solving skills and hands-on experience in Python development and Flask framework. Skilled in building full-stack web applications, AI driven projects, and automation tools. Passionate about Generative AI, actively pursuing a Udemy course to enhance expertise. Experienced in solving coding challenges on LeetCode, developing interactive projects, and working with databases (MySQL, PostgreSQL). Adept at participating in coding competitions, quickly learning new technologies, and delivering reliable, scalable solutions.

## Technical Skills

- Programming Languages: Python, Flask, Tkinter, C(DSA), Java, JavaScript (Basic) •
- Frontend: HTML, CSS
- Backend & Databases: MySQL, PostgreSQL
- Tools & Libraries: Git, GitHub, Docker (Familiar), VS Code
- APIs & Services: Weather APIs, Map APIs, Gemini API
- Core Competencies: Problem-Solving, API Integration, Database Management, Competitive Programming

## Education

- B.Sc. Computer Science | Indira College of Commerce and Science, Wakad | CGPA: 9.52 (2023–2026)
- XII –SMT. Godawari Hindi Vidyalaya | 73.33% (2023)
- X –SMT. Godawari Hindi Vidyalaya | 80.60% (2021)

## Projects

### 1. Talent Match AI – Resume Analyzer

- Built an **AI-powered resume analyzer** that evaluates resumes using **ATS principles** and **Gemini AI**.
- Implemented **resume parsing, keyword matching, and ATS scoring** with visual feedback charts.
- Designed a secure system with **authentication (hashed passwords)** and **MySQL database integration**
- Supported **multi-format uploads (PDF, CSV)** with storage and retrieval features.
- Delivered a responsive web UI with real-time suggestions for resume improvement.

## 2. Screen Recorder (Python, OpenCV, PyAutoGUI, Tkinter)

- Developed a **desktop screen recording application** with a custom GUI using **Tkinter**.
- Implemented **real-time screen capture** with pyautogui and frame processing via **OpenCV**.
- Enabled **automatic video saving** with unique filenames in .mp4 format.
- Designed a user-friendly interface with **Start/Stop controls and live timer**.
- Learned to handle **multi-threading** for continuous recording without freezing the GUI.

## 3. Real-Time Web Chat Application (Python, Flask-SocketIO, JavaScript, HTML/CSS)

- Built a **real-time chat application** using **Flask** and **Socket.IO** for WebSocket communication.
- Implemented **user management** with auto-generated usernames, avatars, and live status updates (join/leave).
- Developed **messaging features**: instant text exchange, system messages, and username updates with broadcast notifications.

## 4. Weather Forecast Application (Python, Tkinter, OpenWeather API, Geopy, PIL)

- Developed a **desktop weather forecasting application** with a graphical interface using **Tkinter**.
- Integrated **OpenWeatherMap API** to fetch real-time weather data (temperature, humidity, pressure, wind speed, and description).
- Designed a **custom GUI** with images/icons (search bar, logo, weather panel) for a modern user experience.

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## Certifications & Learning

- Gemini Certified University Student – Google for Education (2025-2028)
- Generative AI – Udemy
- Data Structures & Algorithms (LeetCode practice)
- Basic Web Development (HTML / CSS / JavaScript)
- Python Foundation – codedex.io
- Javascript-codedex.io
- SQL(Basic)-HackerRank