

# SHIVANSH BARTHWAL

+91-8938963288 ◊ Dehradun, Uttarakhand, IND

[shivanshborthwal60.sb@gmail.com](mailto:shivanshborthwal60.sb@gmail.com) ◊ [linkedin.com/shivanshborthwal](https://www.linkedin.com/shivanshborthwal) ◊ [github.com/shivanshborthwal](https://github.com/shivanshborthwal)

## EDUCATION

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<b>Bachelor of Technology in Computer Science Engineering</b> , Graphic Era Hill University	2022 - 2026
<b>Senior Secondary (Class XII)</b> , CBSE, Doon International School Dehradun	2022
<b>High School (Class X)</b> , CBSE, Doon International School Dehradun	2020

## SKILLS

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**Languages:** C (proficient), C++ (proficient), Java (proficient), Python (proficient), SQL, HTML, Javascript.

**Frameworks/Libraries:** React, Node.js, CSS, Next.js, Streamlit, Matplotlib, Seaborn, OpenCV, Face Recognition, NumPy, Pandas, TensorFlow, Scikit-learn.

**Tools:** Git, GitHub, MySQL, Cisco Packet Tracer, RapidAPI, Microsoft PowerPoint, Microsoft Word, Microsoft Visio, Microsoft Excel, Adobe Tools, Canva, Figma

## PROJECTS

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**MediVoice** – *React, Next.js, TailwindCSS, LLM, PostgreSQL*

- Designed a voice-activated AI medical assistant using Next.js and React with real-time speech recognition and natural language responses. The system interprets spoken symptoms, provides AI-generated advice, maintains patient record, and responds with real-time voice feedback through a clean, responsive UI.

**Real-Time System Monitor** – *Python, Streamlit, psutil, Matplotlib*

- Built a real-time system monitor using Python and psutil, featuring a Streamlit-based interface to display CPU and memory usage, active processes, and built-in process termination functionality. Designed with auto-refresh and clean UI for seamless system insights.

**Fraud Detection** – *Python, Scikit-learn, Pandas, NumPy, Streamlit, Matplotlib*

- Implemented a machine learning model to detect fraudulent transactions using Scikit-learn. Built an interactive Streamlit web app that takes transaction features as input and predicts fraud likelihood, visualizing results with a pie chart for clear interpretation.

**Face Recognition** – *Python, OpenCV, NumPy, Face Recognition, CSV*

- Created an automated attendance system using OpenCV and Face Recognition to detect and verify faces in real-time. Utilized NumPy for data processing and CSV for attendance logging, ensuring accurate and efficient tracking and management.

## EXTRA-CURRICULAR ACTIVITIES

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**Tech Sentinel Special Task Force, Uttarakhand** - Selected among the top 20 candidates under the guidance of the Governor in 2025.

**IMU CET** - Scored 1423 out of 30000 in 2022.

## CERTIFICATIONS

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**Google UX Design** – Coursera

**Practical Cyber Security for Cyber Security Practitioners** – NPTEL

**Google Cloud Computing Foundations** – NPTEL

**Mastering Data Structures and Algorithms** – Udemy

**HACK-A-HOLIC** – Graphic Era Hill University Dehradun