

UJJWAL THAKUR

+91 8727014497

ujjwalthakur.008reena@gmail.com

UjjwalThakur

UjjwalThakur28

Portfolio

Education

BACHELOR IN ENGINEERING

PANJAB UNIVERSITY, CHANDIGARH

October 2022 – July 2026

Computer Science and Engineering

• CGPA : 8.8/10

SENIOR SCHOOL (12th)

GOVERNMENT MODEL SR. SENIOR SECONDARY SCHOOL, CHANDIGARH, INDIA

Passed: 2022

• PCMB 91.2% (CBSE)

HIGH SCHOOL (10th)

SATLUJ PUBLIC SCHOOL PUBLIC SCHOOL, PANCHKULA, HARYANA

Passed: 2020

• 94.6% (CBSE)

Experience

SDE Intern

April 2024 - June 2024

INFOSYS SPRINGBOARD INTERNSHIP Remote

- Developed a **modern CMS** using Strapi, Next.js, and Python APIs, boosting content management efficiency by 40% and enabling seamless integration with **5+ third-party services**.
- Engineered a scalable PostgreSQL database handling **10,000+ records**, improving data reliability and query performance.
- Implemented an automated image generation API, streamlining 90% of media creation and delivery workflows.

Coursework

- Completed Google Advanced Data Analytics - Coursera
- Completed Natural Language Processing on Google Cloud - Coursera
- Completed Java - Udemy

Publication

Advanced Web Traffic Modeling and Forecasting with a Hybrid Predictive Approach

IEEE Journal of Web Engineering, 24(3), 409-456, 2025.

DOI: 10.13052/jwe1540-9589.2434

Skills and Abilities

PROGRAMMING

Java, Python, C, C++, SQL

FRAMEWORKS & DATABASES

Spring Boot, Django, FastAPI, Express.js, Next.js, Strapi CMS, MySQL, MongoDB, PostgreSQL

AI & ML

Prompt Engineering, Make.com, PyTorch, CNN

OTHER SKILLS

Data Structures, Algorithms

Projects

SWIFTMEDIC

GITHUB

March 2025 - April 2025

- Built SWIFTMEDIC, a real-time ambulance booking platform with role-based access and 90+ PWA score.
- Secured rides with JWT authentication and **geo-indexed** MongoDB, enabling sub-100ms coordination for 100+ users.
- Enabled live location tracking via **Socket.IO** and **Google Maps API** with sub-2s updates.

COGNIVOICE

GITHUB

June 2025 - July 2025

- Spearheaded Cognivoice, a real-time speech emotion detection system for live audio and YouTube streams with <200ms latency.
- Trained a **4-layer CNN** with SE blocks on 1,400+ **Ravdess/Tess** samples, achieving **95%** accuracy across 8 emotions using Mel spectrograms, MFCC, and Chroma features.
- Delivered live emotion visualization and continuous mood tracking for 100+ concurrent users with <100ms latency.

Achievements

- Smart India Hackathon 2024 - **National Finalist**
- Solved **230+** problems on **Leetcode**
- 1st Prize**, CCET IPD Expo 2024
- 2nd Runner-Up**, CCET Ideathon 2024
- Ranked **83/4473** in Kaggle House Price Prediction.

Position of Responsibility

- Technical Head**, CCET ACM Student Chapter
- Co-Head**, CCET Website Team

Hobbies and Interests

Swimming Chess Painting