

Utsav Pal

(+91) 8975599745 | utsavpal2004@gmail.com | [LinkedIn](#) | [GitHub](#) | utsavpal.dev
Nagpur, Maharashtra, India

EDUCATION

Vellore Institute of Technology University, India	2022 – 2026
<i>B.Tech in Computer Science; CGPA: 8.5/10</i>	
Kendriya Vidyalaya Ambajhari, Nagpur, India	May 2022
<i>HSC, CBSE; 93%</i>	
Kendriya Vidyalaya Ambajhari, Nagpur, India	May 2020
<i>SSC, CBSE; 89%</i>	

TECHNICAL SKILLS

Languages:	Python (Proficient), Java
Full Stack:	FastAPI, Django, JS, HTML, CSS
Database & Cloud:	MySQL, AWS, Vercel
Data Science & ML:	NLP, ML Algorithms, NumPy, Pandas, Matplotlib
Developer Tools:	Sublime, VS Code, Git, Docker, Jupyter, Github
CS Fundamentals:	DSA, OOP, OS, DBMS

PROJECTS

PyDeadCode – Python Dead Code Analyzer — Python, CLI	2025
<ul style="list-style-type: none">Implemented AST-based static analysis to detect unused Python code.Traversed syntax trees using visitor patterns for symbol usage tracking.Identified dead functions, imports, and variables via definition-usage analysis.Built fast CLI tool suitable for large codebases and CI pipelines.	
Go2.Ninja – Distributed URL Shortener — Python, FastAPI, MySQL	2025
<ul style="list-style-type: none">Designed and implemented a REST-based URL shortening service using FastAPI.Generated collision-resistant 7-character Base62 short codes (62^7 keyspace).Stored URL mappings and analytics in MySQL hosted on Aiven.Implemented HTTP 301 redirection with click-count tracking for each URL.Used SQLAlchemy ORM for schema design, indexing, and efficient lookups.Deployed using ASGI (Uvicorn) with environment-based configuration support.	
Predictive Health Diagnosis System — Python, ML, Django	2024
<ul style="list-style-type: none">KNN-based disease prediction with 92% accuracy and 0.89 F1-score for reliable outcomes.Applied preprocessing, feature scaling, and cross-validation to improve prediction reliability by 20%.Integrated model into Django web app providing real-time predictions with intuitive interface.Performed error analysis and feature importance evaluation to provide actionable insights.Designed a user-friendly dashboard to display predictions and historical patient data.	

OPEN SOURCE CONTRIBUTIONS

OpenClimateFix	2024
<ul style="list-style-type: none">UK-PVNet: Refactored 3 large functions into 10 modular units, reducing code complexity by 25%, improving testing, updating documentation, and resolving merge conflicts.OCF-Data-Sampler: Fixed 200+ linting errors and formatted codebase using Ruff & Black, achieving 100% lint compliance, reducing CI/CD failures, and improving developer productivity.	

CERTIFICATIONS

- DevOps Fundamentals — IBM
- Cybersecurity Analyst — IBM

ACHIEVEMENTS & EXTRA-CURRICULAR

- Maintained a 913 rating on Codeforces through consistent problem solving.
- Active member of the Coding Block Club, contributing to peer learning and coding workshops.
- Football player (Right Wing) representing Kendriya Vidyalayas at Regional, Cluster, and Club levels.