

Ajay Gangwar

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Projects

Terrorism Analysis & OCR-Driven Power BI Dashboard | Power BI | Python | OCR | Data Analytics Nov' 2025 – Dec' 2025

- Developed an interactive Power BI dashboard analyzing **40+ years** of global terrorism data from **200+ countries** using GTD data.
- Implemented an OCR-driven Python workflow to extract **6+ key** incident attributes directly from screenshots automatically.
- Integrated OCR outputs with historical datasets to dynamically compute casualties and attack insights in real-time.
- Published a mobile-responsive Power BI report with automated updates & GitHub-hosted assets.

GitHub Repository Link: <https://github.com/ajaygangwar945/Global-Terrorism-Analysis>

Ayush Healthcare Interoperability Platform | MERN Stack, Fast API, Responsive Web Design Sep' 2025 – Oct' 2025

- Architected a React and FastAPI platform aligned with global standards, cutting latency by **35%** via async processing.
- Devised a dual-coding engine that mapped **1,000+** terms to ICD-11/SNOMED CT and achieved **95%** accuracy via fuzzy logic.
- Standardized healthcare data exchange using HL7 FHIR R4 and ISO 22600, ensuring compliance and secure interoperability.
- Orchestrated ABHA OAuth2 and WHO APIs and optimized queries to process data under 200ms for health ecosystems.

GitHub Repository Link: <https://github.com/ajaygangwar945/ICD-Mapping>

Training

Code Query | Oracle Database 19c, Oracle APEX, PL/SQL | LPU| Certificate Jun' 2025 – Jul' 2025

- Designed, developed, and deployed a centralized conference paper submission portal using SQL, PL/SQL, and Oracle APEX, with a 3NF database (50+ tables) and automated peer-review workflows via stored procedures, reducing processing by **~60%**.
- Implemented a secure Oracle APEX interface with role-based access (authors, reviewers, admins), real-time status tracking, PL/SQL triggers for data integrity, and optimized queries for scalable performance.

Certifications

Introduction to Modern AI Nov' 2025
Cisco | Certificate Link

Python for Data Science Feb' 2025
NPTEL - IIT Madras | Certificate Link

Data Structures and Algorithms using C++ Dec' 2024
Iamneo | Certificate Link

Technical Skills

Languages: Python, Java, C, C++, JavaScript, SQL

Technologies/Frameworks: React.js, Node.js, Express.js, HTML, CSS, Tailwind CSS, MySQL, MongoDB, Firebase, Git, GitHub, Jupyter Notebook, Power BI, Excel, Google Maps API, Google Gemini API, Figma

Skills: Data Structures & Algorithms, Object-Oriented Programming (OOP), Data Analysis, Exploratory Data Analysis (EDA), Machine Learning Basics, Predictive Analytics, RESTful APIs, Responsive Web Design, Problem-Solving

Education

Lovely Professional University 2023 – 2027
Computer Science and Engineering — CGPA: 7.3 Phagwara, Punjab

Vidya Bhavan Public School 2021 – 2022
12th with Science — Percentage: 74% Bareilly, Uttar Pradesh

Vidya Bhavan Public School 2019 – 2020
10th with Science — Percentage: 90% Bareilly, Uttar Pradesh