

Kunal Chandra

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Experience

Intelligence Fusion & Strategic Operations (IFSO) Special Cell, Delhi Police

1st August 2025-31st August 2025

Data Science Intern | [Link](#)

- Built **AI-Driven Object Mapping & Dynamic Script Modification** tool to analyze Python GUI scripts, detect widgets, and auto-inject event methods.
- Utilized **AST parsing, regex, JSON handling, and dynamic code generation**, and trained a model to act as an **AI coding assistant** for developers' code files.
- Automated repetitive coding tasks, improving workflow efficiency and showcasing the potential of **AI-driven development automation**.

Technical Skills

Languages: Python, Java, C, Go, JavaScript, HTML, CSS

Developer Tools: Jupyter Notebook, VS Code, GitHub, Anaconda, Google Colab, Ollama, Docker, Git

Frameworks & Libraries: Pandas, NumPy, Matplotlib, Seaborn, OpenCV, NLTK, Scikit-learn, TensorFlow, Keras, PyTorch, YOLOv8, BYTETrack
Tesseract OCR, Flask, Streamlit, Gradio

Databases: MongoDB, MySQL, SQL

Projects

Intelligent Traffic Signal Control System (SMARTFLOW) | [Project](#) | [Live](#)

- Developed an AI-driven traffic management system using **YOLOv8** for real-time vehicle detection, **BYTETracker** for robust object tracking, and React for the user interface.
- **Integrated IoT hardware (ESP32 with RFID)** to prioritize emergency vehicles and implemented dynamic signal timing for congestion reduction.

DSCoin: Educational Blockchain Implementation | [Project](#)

- Developed a **Java-based cryptocurrency** system implementing core blockchain concepts such as **proof-of-work mining, transaction validation, and Merkle trees**.
- Utilized **Java, SHA-256 hashing, data structures (Queues, Linked lists, Merkle trees)** to simulate mining rewards, transaction flow, and blockchain security.

EduX – AI-Powered Cognitive Learning Chatbot | [Project](#)

- Built an AI-driven tutoring platform using **Python (Flask)** and **Ollama**, integrating LLMs like **Mistral, Wizard-Math, and Dolphin** for adaptive learning, quizzes, and real-time feedback.
- Implemented cognitive learning features including personalized teaching stages, YouTube slide extraction with **OCR (Tesseract + OpenCV)**, and analytics dashboard for performance tracking.

Education

Haridwar University

September 2023 – June 2027

Bachelor in Computer Science | CGPA :8.37

Indian Institute of Technology Mandi

August 2025-June 2026

Minor in Artificial Intelligence & Data Science

Sam International School | Schooling

Class X: 94% | 2021

CLASS XII: 76.4 | 2023

Certifications and Achievements

- Programming in Java (Elite) – NPTEL, IIT Kharagpur July–October 2024
- Tata Cybersecurity Security Analyst Job Simulation on Forage-TCS January 2025
- Deloitte Australia Data Analytics Job Simulation on Forage July 2025
- In Trwizardthon, From 1300+ teams and 5200+ students across 28+ states, we soared into the Top 25 Finalists [Link](#)