

HARMANDEEP SINGH

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EXPERIENCE

Connecting Dreams Foundation(AICTE)

Jan 2025 – Feb 2025

Blockchain Technology Intern

Delhi, India

- **Supply Chain Management:** Tracking the origin and movement of goods.
- **Voting Systems:** Creating Secure and tamper – proof voting records
- **Healthcare :** Managing secure patient data

Technophilia

Jul 2024 – Aug 2024

Python Developer Intern

Delhi, India

- Collaborated Developed and maintained scripts using Python to automate routine data processing tasks, resulting in a 15% improvement in departmental workflow efficiency.
- Contributed to a full-stack application development project, focusing on back-end logic implementation using Python (e.g., Flask/Django) and integrating with SQL/NoSQL databases.
- Participated in code reviews and utilized Git/GitHub for version control, ensuring code quality and collaborative development within an Agile team structure.

PROJECTS

Vehicle Management System for Indian Army

Sep 2025 – Oct 2025

- Developed an offline **Vehicle Management System (VMS)** for the **Indian Army**, deployed across academy and cantonment areas.
- Utilized **Python, OpenCV**, and **IP cameras** for fully automated, manual-entry-free vehicle detection and tracking.
- Implemented a **secure SQL database** for robust, real-time data management of authorized vehicles.

IndiScan AI

Jul 2025 – Aug 2025

- **Multimodal Document Processor:** Engineered a Python-based pipeline using **PyTesseract**, **PyMuPDF (fitz)**, and **python-docx** to extract and process text from images, PDFs, and Word documents with 90% accuracy across diverse formats.
- **Regional Language Translation Engine:** Developed a cross-format translation engine for English, Hindi, and regional languages, utilizing PyTesseract and python-docx to maintain document formatting and structural integrity across bi-directional conversions.
- **High-Volume Data Handling:** Optimized system architecture to support seamless processing of files up to 16MB with no page-count restrictions, utilizing **PIL** for image preprocessing to enhance OCR results.

Finding Missing Person using Artificial Intelligence

Feb 2025 – Mar 2025

- Developed a **Python Streamlit web app** for locating missing persons using image-based matching and **OpenCV/face-recognition** techniques with ML-driven similarity search.
- Implemented secure authentication and role-based access using **streamlit_authenticator** and **YAML** configuration with session management and user dashboards.
- Built backend case management with SQL/SQLite queries, image preprocessing (base64 handling), and interactive UI metrics to streamline investigations.

TECHNICAL SKILLS

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

Tools & Technologies : Pytorch ,OpenCV,TesseractOCR, TensorFlow ,Seaborn, Flask, MySQL, MongoDB, Git/Github, scikit-learn, Pandas, Keras, SceneBuilder, Streamlit, Figma, YAML

EDUCATION

GURU TEGH BAHADUR INSTITUTE OF TECHNOLOGY (GTBIT) in Delhi

July 2022 – June 2026

BTech in Computer Science and Engineering

Percentage:70.5

- **Coursework:** Data Structures & Algorithms, Object Oriented Programming, Database Management System, Computer Networks, Operating System, Machine Learning, Computer Vision, Digital Image Processing, Computer Architecture, Probability & Statistics.

AWARDS AND ACHIEVEMENTS

- **Won Coding Competition** in CQS
- **Hackathon Runner Up** : Organised By AiThon Society In Guru Tegh Bahadur Institute Of Technology
- **Won Bronze Medal** in Table Tennis Competition

CERTIFICATIONS

- Certification in **Data Structures and Algorithm** (CQS Training Private Limited) Jan 2023 – Apr 2023
- **Google Data Analytics**(Google & Coursera) Oct 2024 – Mar 2025
- Introduction to **Statistical Analysis: Hypothesis Testing** Dec 2025 – Dec 2025