

# TEJJAS SINGH

New Delhi, India

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## EDUCATION

### Delhi Technological University (DTU)

B.Tech - Electrical Engineering(minor in IT) - **SGPA – 7.58** (Till 6th Semester)

**2022 – 2026**

New Delhi, India

### Delhi Public School,Indirapuram

CBSE Class XII – **94.2%**

**2021**

Uttar Pradesh, India

### Delhi Public School,Indirapuram

CBSE Class X - **95.6%**

**2019**

Uttar Pradesh, India

## EXPERIENCE

### AI Engineering Intern

**May 2025 – Present**

Valiance Solutions,Noida

- Built a custom object detection pipeline to identify aircraft (F-16, Mirage, etc.) and naval vessels from satellite images using YOLOv8 and deployed it on streamlit
- Created and annotated a domain-specific dataset from scratch using Roboflow, including custom label maps and bounding boxes.
- Designed a document intelligence pipeline using Gemini Vision API to extract photos and structured data from scanned PDFs.
- Developed a responsive, SEO-optimized frontend website for a legal firm using React, Vite, and JavaScript.

### Intern at Ernst & Young , Noida

**May 2024-July 2024**

- Supported on various aspects of third party risk management and third party due diligence and worked on necessary databases to perform background checks on companies

## PROJECTS

### AI-Powered Tennis Match Analysis

**2024**

- Extracted and analyzed tennis match metrics such as ball speed, player movement zones, and rally durations from match footage using YOLOv8 and DeepSORT tracking
- Designed a data processing pipeline with OpenCV and PyTorch to transform raw video into structured performance data for visual analysis
- Generated match statistics and heatmaps to support real-time performance insights, highlighting data storytelling in sports analytics.

### RAG-Based Chatbot for Document Intelligence

**2024**

- Developed a Retrieval-Augmented Generation (RAG) system using Hugging Face models and ChromaDB to extract structured insights from large text documents
- Automated data retrieval, semantic search, and summarization across multiple files, enabling fast and context-aware query responses from unstructured datasets
- Implemented a dashboard interface using Streamlit to visualize query results, document relevance, and response history aligning with data storytelling practices

## TECHNICAL SKILLS

**Languages:** C++, Python, SQL,HTML,CSS

**Technologies/Tools:** YOLOv8, PyTorch, OpenCV, Hugging Face Transformers, Streamlit, LangChain, FAISS, PowerBi,Matplotlib,Pandas

**Core Competencies:** Data Structures & Algorithms, System Design, Data Analysis, Visualization, Computer Vision, NLP, SQL, Insight Generation, RAG Architecture

## ACHIEVEMENTS & ACTIVITIES

- Solved 300+ problems on LeetCode and GeeksforGeeks
- Chess enthusiast with 2000 rating on chess.com
- Finalist, Curious Case 5.0 – 180 Degrees Consulting SRCC amongst 1000+ teams
- Member of DCG , E-cell involved in organizing various events,workshops aimed at fostering professional development