

# HIMANSHU AGGARWAL

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[Linkedin](#)

[GitHub](#) [Leetcode](#)

## Education

### Manav Rachna International Institute of Research and Studies (MRIIRS)

B.Tech in Electronics and Communication Engineering

Aug 2021 – May 2025

Faridabad, Haryana

### Vidya Mandir public School

12th (CBSE), Percentage: 92%

April 2019 – March 2020

Faridabad, Haryana

## Experience

### Backend Developer Intern | RUPYZ

Feb 2025 – Oct 2025

- Implemented Redis-based caching over Cassandra to improve read performance and reduce AWS server load.  
Technologies learned: Redis, Cassandra, distributed caching, performance optimization

- Developed a Student Management System using Django & DRF, implementing role-based authentication, secure REST APIs, and PostgreSQL data models.

Technologies learned: Django, DRF, PostgreSQL, API security, database schema design

[GitHub](#)

- Auto DNS Mapper using AWS Lambda, Route 53 CloudWatch to automate DNS A-record updates based on EC2 lifecycle events.

Technologies learned: AWS Lambda, Route 53, CloudWatch Events, IAM permissions, AWS SAM, serverless workflows

[GitHub](#)

- Slack Notification Bot Built using Python, Slack API Docker for automated real-time alerting.

Technologies learned: Slack API, OAuth scopes, Docker containers, CI-style automation

[GitHub](#)

## Skill Set

**Languages** Python (DSA, scripting), Java, SQL, HTML/CSS

**Frameworks/Libraries** Django, Django REST Framework

**AI/ML** PyTorch, Transformers (BLIP/BERT), Hugging Face, RAG, NLP, Model Fine-Tuning, Text Classification, NER, Scikit-learn, NumPy, Pandas, Matplotlib

**NLP Processing** Tokenization, Vectorization, Lemmatization, Stemming, Embeddings

**ML Concepts** Neural Networks, Feature Extraction, Model Evaluation (Accuracy, F1-Score, Precision/Recall)

**Databases** PostgreSQL, SQL

**DevOps/Cloud** Docker, AWS (EC2, Lambda, Route 53)

**Tools & Testing** VS Code, Git/GitHub, Postman, Linux (Ubuntu), Windows

**Soft Skills** Problem Solving, Teamwork, Flexibility, Computer Literacy

## Projects

### Resume parser | [GitHub](#) | [Live Demo](#) | Python, spaCy, NLTK, Scikit-learn, Pandas, Regex

Oct 2025

- Built an NLP and Machine Learning-based Resume Parser to automatically extract structured information (skills, experience, education, projects, contact details) from PDF/DOCX resumes.
- Implemented entity extraction workflows using tokenization, lemmatization, NER, and Regex, converting unstructured text into structured JSON for ATS-style processing.

### Video-To-Text | [GitHub](#) | Python, Hugging Face Transformers (BLIP), PyTorch, OpenCV, requests, PIL.

sep 2025

- Developed an AI-powered Video-to-Text system that automatically extracts frames from video and generates descriptive captions using BLIP (Vision-Language Transformer).
- Implemented a robust video processing pipeline including URL-based video download, frame sampling, audio-free caption generation, and safe validation using OpenCV and Pillow.

### Face Recognition Based Attendance System | [GitHub](#) | Python, OpenCV, Tkinter, Pandas

Oct 2024 - Jan 2025

- Developed a real-time attendance system using LBPH and Haar Cascade with Tkinter-based GUI to manage registration, detection, and attendance visualization securely.
- Enabled offline usage and automated timestamped CSV logging, enhancing reliability and reducing manual attendance effort.

## Achievements

### STARTUP – Pill Box Selected in the Manav Rachna Prototype Program

2023

- Selected for the Manav Rachna Prototype Program (Newgen IEDC 2023) for the “Pill Box” startup idea, receiving 2.5 lakh funding and 180-day incubation support.