

HIMANSHU AGGARWAL

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

Education

Manav Rachna International Institute of Research and Studies (MRIIRS) Aug 2021 – May 2025
B.Tech in Electronics and Communication Engineering Faridabad, Haryana

Vidya Mandir public School April 2019 – March 2020
12th (CBSE), Percentage: 92% 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.