HIMANSHU AGGARWAL

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 GitHub </> Leetcode </> Portfolio

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 – March2020**
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.