



Himanshu Kumar

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[LinkedIn](#)

[Github](#)



Education

IIIT Delhi

B.Tech (Computer Science and Engineering)
2022 - 2026 (Present)

CGPA: 6.52

RSBV Patparganj, Delhi-91

CBSE, Standard 12
2019 - 2020

Percentage: 84%

RSBV School Block, Shakarpur, Delhi-91

CBSE, Standard 10
2017 - 2018

Percentage: 82%

Skills

Expertise Area: Data Structures and Algorithms (DSA)

Programming Languages: Python, Java, C, C++, Kotlin

Tools and Technologies: Linux, JavaFX, Android Studio, VS Code, IntelliJ IDEA

Technical Electives: Operating System, Database Management Systems (DBMS), Algorithm Design Analysis (ADA), Mobile Computing

Projects

Plant Diseases Detection with Solution

Guide: Arani Bhattacharya

Developed a mobile application for plant disease detection using ResNet-50 with 96% accuracy on 38 classes. Used PyTorch Mobile for offline inference. Built advisory system using local LLMs (Llama-2/phi-2). Created Android app with Jetpack Compose, CameraX, and Navigation.

Tech Stack: Kotlin, Android Studio, PyTorch Mobile, OpenAI SDK.

[GitHub](#)

Team Size: 1

(Jan 2024 - May 2025)

Gendered Abuse Detection in Indic Languages

Collaborators: Aman Tomar, Deepesh

Developed machine learning models for detecting gender-based abuse in Hindi, Tamil, and Indian English social media content. Implemented CNN-BiLSTM-Attention architecture with XLM-RoBERTa embeddings, achieving superior performance over IndicBERT baselines. Built multi-task learning system for joint prediction of gendered abuse and explicit content detection. Applied transfer learning using domain-adapted Twitter models for cross-lingual abuse detection.

Tech Stack: Python, PyTorch, XLM-RoBERTa, CNN, BiLSTM, Attention Mechanisms.

Team Size: 3

AgriPredict: Machine Learning-Based Crop Yield Prediction

Collaborators: Naman Jindal, Nishchay Sharma, Harshil Handoo

Developed comprehensive ML system for crop yield prediction using multi-country agricultural dataset (28,242 records). Implemented ensemble methods including Random Forest, XGBoost, and Bagging Regressor achieving 98.9% accuracy. Created interactive GUI using Streamlit for model selection and visualization. Applied advanced data preprocessing, feature engineering with one-hot encoding, and k-fold cross-validation for robust model evaluation.

Tech Stack: Python, Scikit-learn, XGBoost, Streamlit, Pandas, Matplotlib.

Team Size: 4

Stick Hero Game

Guide: Raghava Mutharaju

Developed interactive Stick Hero game using JavaFX. Implemented game mechanics and GUI in Java.

[GitHub](#)

Team Size: 2

(Nov 2023 – Dec 2023)

Zoo Management System

Guide: Raghava Mutharaju

Designed a zoo management system in Java as part of Advanced Programming course.

[GitHub](#)

Team Size: 1

(Oct 2023 – Nov 2023)

Interests and Hobbies

- Playing Table Tennis and Cricket
- Geopolitics

Declaration: The above information is correct to the best of my knowledge.

Himanshu Kumar

Date: 08/07/2025