



Ritika Thakur

TalentSprint WE Scholar (by Google)
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[Personal Portfolio](#)



Education

Indraprastha Institute of Information Technology, Delhi

B.Tech (CSAI)

2022 - 2026

CGPA: 8.1

(Till 4th semester)

White Leaf Public School, Delhi

CBSE, Standard 12

2020-2022

Percentage : 93.4%

St. Francis School, Ghaziabad

CBSE, Standard 10

2019 - 2020

Percentage : 95.6%

Skills

Expertise Area:	Data Structures and Algorithms, Object Oriented Programming, Algorithm Design and Analysis, Machine Learning
Programming Languages:	Python, Java, HTML, CSS, C++, C, JavaScript, EJS
Tools and Technologies:	Git, GitHub, Github Actions, IntelliJ IDEA, PyCharm, PyTorch, VSCode, Overleaf, JavaFX, libGDX, Google Collab, OpenCV, MySQL, MongoDB, TensorFlow, Scene Builder, Maven, Shells(Bash), Figma, Canva
Technical Electives:	Data Structures and Algorithms, Advanced Programming, Algorithm Design and Analysis, Machine Learning, Data Science, Artificial Intelligence, Computer Networks, Computer Organization, Operating Systems, Database Management Systems, Introduction to Intelligent Systems, Introduction to Programming, Statistical Machine Learning, Convex Optimization

Projects

SignXpert ([link](#))

Women Engineers Project by TalentSprint, supported by Google

Team Size-3

(Dec, 23)

- Created an **American Sign Language Translator** that translates sign language into text in real time using hand gesture recognition.
- Applied **OpenCV** and used **TensorFlow** to train the model on self-created datasets.
- (*Python, OpenCV, TensorFlow, Keras, HTML, CSS, JavaScript, Flask*)

Pan India Language Classifier ([link](#))

Team Size-4

(Oct, 24 - Nov, 24)

- Developed a language recognition system for Pan Indian languages using classical machine learning techniques like **RF, SVM, MLP, GMM, GMM-UBM and HMM** on a comprehensive dataset of audio recordings.
- Analyzed acoustic features like **MFCCs, chroma and spectral properties**, to build the models.
- (*Python, Scikit, Tensorflow*)

BookHaven([link](#))

Team Size-3

(Mar, 24 - Apr, 24)

- Full Stack Development** of a 'bookstore' by maintaining the database using MySQL.
- Handled conflicting and non-conflicting **transactions**.
- (*MySQL, JavaScript, EJS, Node.js, CSS*)

Stock Predictor and Sentiment Analysis on r/WallStreetBets (link) <ul style="list-style-type: none"> Created a stock market predictor using LSTM. Performed sentiment analysis on the Reddit r/WallStreetBets using VADER. (<i>Python, LSTM, VADER</i>), (<i>Dataset used: Reddit-WallStreetBets-posts, Yahoo Finance</i>) 	Team Size-2 (Mar, 24 - Apr, 24)
Stick Hero Game (link) <ul style="list-style-type: none"> Implemented the popular game ‘Stick Hero’ by using OOPS. Streamlined the development process using UML and relation diagram (<i>Java, JavaFX , LibGDX, JUnit Testing, Scene Builder</i>) 	Individual (Nov, 23 - Dec, 23)
Assembler-Simulator (link) <ul style="list-style-type: none"> Designed and Implemented an assembler and simulator. Utilised a hypothetical instruction set architecture, and visualised memory access location over time. (<i>Python, shell</i>) 	Team Size-4 (May, 23)

Experiences

Mentor for Teach Like a Friend Initiative, to teach Science, Maths to underprivileged students	(Aug,23 – Dec,23)
Member of the Placement Cell of IIITD	(Present)
Mentor for the Student Mentorship Program at IIITD to mentor 1st year students	(Present)
Mentor for the STEP Mentorship at IIITD to mentor students preparing for STEP Internship at Google	(Present)
Member of Women In Tech (WIT)	(Present)
Part of the Organizing Team of ESYA (Tech Fest) [PR Team, Content Team]	(Sep,23)
Member of Meraki (Art Club of IIITD)	(Present)

Awards and Achievements

- Selected as a **WE Scholar’23**, Women Engineers Program offered by TalentSprint, supported by Google, among the top **1%** applicants from a pool of over 22,000 candidates.
- Secured a spot in the final round of the **Institution of Engineering and Technology India Scholarship Award 2023**, amidst a pool of 43,000+, India Scholarship Award 2023.
- Received the **Reliance Foundation Scholarship** for undergraduates, earned amongst a competitive pool of 40,000 candidates.
- Selected for competing in the final round of **Lady Ada Programming Contest** by **ACM** Student Chapter, India.
- Rank amongst the top **20%** of the batch of 2026 at IIITD.
- Recipient of the **Dean’s Award for Academic Excellence** for the year 2022-23 at IIITD.

Interests and Hobbies

- Making art (Painting, Pen Art, Handmade gifts)
- Meeting new people and forming new connections
- Reading novels and writing poetry
- Listening to and discovering new music

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

Ritika Thakur

Date: December 22, 2024