Ritika Thakur

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 Github
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
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)
Technical Electives:	Data Structures and Algorithms, Advanced Programming, Algorithm Design and Analysis, 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)*

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)

Team Size-2
(Mar, 24 - Apr, 23)

- Created a stock market predictor using **LSTM**.
- Performed sentiment analysis on the Reddit r/WallStreetBets using **VADER**.
- *(Python, LSTM, VADER), (Dataset used: Reddit-WallStreetBets-posts, Yahoo Finance)*

Stick Hero Game(link)   **Individual**
                                                                                 (Nov, 23 - Dec, 23)

- Implemented the popular game 'Stick Hero' by using **OOPS**.

- Streamlined the development process using **UML** and **relation diagram**

- *(Java, JavaFX , LibGDX, JUnit Testing, Scene Builder)*

Assembler-Simulator(link)   Team Size-4
                                                                                 (May, 23)

- Designed and Implemented an assembler and simulator.

- Utilised a hypothetical **instruction set architecture**, and visualised **memory access** location over time.

- *(Python, shell)*

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)
Part of the Organizing Team of ESYA (**Tech Fest**) [PR Team, Content Team]	(Sep,23)
Member of Meraki (Art Club of IIITD)	(Present)
Member of Women In Tech (WIT)	(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.

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: June 3, 2024