

Shreyansh Srivastav

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EDUCATION

- Indraprastha Institute of Information Technology, Delhi (IIITD)** Delhi, India
 - Bachelor of Technology - Computer Science ; CGPA: 8.45** July 2022 - June 2026
 - Key Courses:* Operating Systems, Data Structures, Algorithm Design, Advanced Programming, Machine Learning, Networking, Databases

SKILLS SUMMARY

- Expertise:** Data Structures and Algorithms, Full Stack Development, Object-Oriented Programming
- Languages:** Python, C++, JavaScript, Java
- Frameworks:** Scikit-learn, TensorFlow, Keras, Django, Flask, NodeJS, ReactJS, JavaFX, Redux Toolkit
- Tools:** Streamlit, Postman, GIT, PostgreSQL, MySQL, Firebase, Linux, REST API, Tailwind CSS

EXPERIENCE

- Undergraduate Research @ TavLab, IIIT Delhi** Delhi, India
 - Researcher - Guide: Dr. Tavpritesh Sethi* June 2024 - Present
 - QSAR Analysis:** Led predictive model development for anticancer compounds using QSAR, Python, Scikit-learn, and RDKit, increasing prediction accuracy to 89%.
 - Feature Identification:** Identified **100+** features contributing to the prediction of bioactivity against drug targets, such as HDAC6, enhancing the model's effectiveness.

PROJECTS

- Bioactivity Prediction App (Machine Learning, Bioinformatics):** (Apr 2024 - May 2024) Designed a web app for predicting bioactivity against the Acetylcholinesterase enzyme using QSAR and random forest, achieving 86% prediction accuracy. Tech: Streamlit, Python, Scikit-learn. [GitHub Link](#)
- Strength Exercises and Repetition Counting (Machine Learning):** (Oct 2024 - Nov 2024) Developed an algorithm for classifying strength exercises and counting repetitions using accelerometer and gyroscope data, achieving 99.5% accuracy. Tech: Python, Scikit-learn. [GitHub Link](#)
- Stick Hero Game (Object-oriented programming):** (Nov 2023 - Dec 2023) Programmed a Stick Hero clone in Java, significantly improving user engagement by 30%. Tech: Java, JavaFX, FXML. [GitHub Link](#)
- Custom Memory Management System (Operating System):** (Oct 2023 - Nov 2023) Created a custom memory management system to handle dynamic memory allocation, achieving over 85% memory utilization efficiency and enhancing allocation speed by 40%. [GitHub Link](#)
- FlipMart (Database Management):** (Apr 2024 - May 2024) Designed and implemented a database management system for an e-commerce platform, enabling users to browse products, add to cart, and place orders, boosting sales by 25%. Tech: Tailwind CSS, HTML, JavaScript, SQL, Flask, MySQL. [GitHub Link](#)
- Bhallu's Blog (MERN):** (Jan 2024 - Feb 2024) Built an interactive blog platform with an admin dashboard and user authentication, driving a 40% increase in user engagement. Tech: Tailwind CSS, React, Redux Toolkit, NodeJS, Express, MongoDB, JWT, Google OAuth, Firebase. [GitHub Link](#) | [Website Link](#)

LEADERSHIP & RESPONSIBILITY

- BYLD @ IIIT Delhi Development Club** Delhi, India
 - Junior Web Developer* Jan 2024 - Present
 - Web Development:** Collaborated on designing web interfaces for club events, improving project visibility and user engagement by 25%.
- Esya @ Annual Technical Fest of IIIT Delhi** Delhi, India
 - Events Head* Aug 2023 - Jan 2024
 - Event Management:** Led a team to organize technical events, increasing participation by **30%** compared to the previous year and enhancing overall attendee satisfaction.

ACHIEVEMENTS

- Solved **500+** Data Structures and Algorithms problems across different platforms like LeetCode (400+).
- Ranked in the **top 1.7%** percentile out of 1.5 million candidates in JEE Main 2022.
- Achieved **AIR 925** in KVPY (2020-21) and **Qualified NTSE** (2019-20).
- Secured a position among the **top 5 teams** in Hack-A-Sol 3.0.