

ASHITA SRIVASTAVA

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Education

Indian Institute of Technology Delhi (IITD)

Bachelor of Technology

Nov. 2021 – May 2025

CGPA - 7.01

Experience

SGRS Pvt. Limited

Software Engineer Intern

Dec. 2023 – Jan 2024

Remote

- Led a team in developing a robust Learning Management System for Jharkhand Gov., serving over 1lakh+ learners.
- End-to-end creation from scratch and deploying it for real-life use of the MERN stack-based platform.
- Ensured top-tier security for student and government data, aligning with stringent compliance standards.
- Delivered a comprehensive platform with online classes, placements, interviews, attendance etc, and other LMS features.

Centre for Transportation Systems (CTRANS), IIT Roorkee

Data Science Intern

Dec.2022 – Jan 2023

Roorkee, Uttarakhand

- Built a user-friendly GUI application using the Tkinter library to provide comprehensive bus route information.
- Enables real-time frequency plot, bus numbers, and departure times, empowering users for efficient travel planning.
- Implemented an automated route management system for a large fleet of 6,643 buses operating on 6,526 routes.
- Collaborated with a team to analyze the system using Python for statistical analysis, data visualization, and analytics.

Projects

EdTech Website | MERN , Web Development

April 2023

- Implemented a hierarchical database architecture to optimize the management of user data with various complexity.
- Leveraged Zod library for robust schema validations, ensuring data integrity and security of the website .
- Implemented a fortified login system by combining JWT tokens, bolstering overall application security measures

Self-Driving Car Simulation | JavaScript , DeepLearning

March 2023

- The system dynamically learned and adapted to obstacles, continuously enhancing route selection capabilities.
- Developed a real-time neural network visualizer, optimizing neural networks through weight and bias assignment.
- Implemented collision detection, parallelization, and progress saving using modern JavaScript and local storage.

Network Packet Transfer Analysis | Python , Algorithms

October 2022

- Created a program to analyze computer networks, identifying the maximum transferable packet size between routers.
- Employed a graph-based approach that takes into account link capacities and bidirectional communication.
- Showcased strong problem-solving and algorithmic skills through the optimization of network packet transfer

Weather Forecasting | Python Machine Learning

November 2022

- Applied machine learning techniques, including ridge regression, to predict next day's maximum temperature
- Proficient in dataset handling, preprocessing, ML modeling, and prioritizing data quality and exploratory analysis.
- Attained exceptional precision, with an impressively low error of 0.6525622728° on a dataset spanning 34 years.

Technical Skills

Languages: Python, C++, HTML/CSS, JavaScript, SQL

Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio

Technologies/Frameworks: GitHub, Command Line

Leadership / Extracurricular

TRYST 2023

June, 2022 - May, 2023

Activity Head

IITD

- Led 50+ student activity team and guest contracting team, demonstrating teamwork and coordination.

Inter Hostel Wall Painting

July, 2021 - May, 2022

Winner

IITD

- Winner in inter hostel wall painting event with a group of 20+ hostel students

TRYST 2022

July, 2021 - May, 2022)

Team Head

IITD

- Collaborated closely to organize and execute a diverse array of activities showcasing strong teamwork and project management skills, worked with the team to plan, strategize the event.