

SHREYA AGGARWAL

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📍 Ambala Cantt, Haryana, India

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech, Major in Computer Science and Minor in Management	Indian Institute of Technology, Mandi	7.75/10.00	July 2019 - May 2023
Intermediate (12th)	CBSE Board	94.2%	April 2016 - March 2018
Matriculation (10th)	CBSE Board	10.0/10.0	April 2004 - March 2016

WORK EXPERIENCE

Software Developer – Centre for Development of Telematics

August 2023 – Feb 2025

(New Delhi, India)

(Project Trainee : July 2023 – August 2023)

- Designed and implemented the **Cloud Firewall Event Handler System** for processing and forwarding events of different EPC nodes in 4G network architecture. Utilized C programming and Fluentbit architecture, achieving improvement in event processing efficiency and reduction in event processing time, resulting in enhanced network security and optimized system performance.
- Designed and implemented a **Performance Monitoring System** to track performance metrics across multiple EPC nodes, improving the efficiency and accuracy of performance tracking. Reduced monitoring time by 80% and enhanced system reliability.
- Designed and implemented **High Availability Monitoring** modules using creating a scalable logging framework, and monitoring the health status of nodes in the CFW ecosystem, while ensuring optimal performance and system health.
- Automated manual test cases using the Python unittest framework, improving test efficiency and accuracy. Reduced manual test execution time by 90%, leading to 80% faster identification of defects.
- Enhanced product quality by resolving critical bugs, conducting thorough code reviews, and collaborating with QA on testing, demonstrating expertise and commitment to excellence.

Data Engineer Intern – Technocolabs Softwares Inc.

July 2022– Sep 2022

Indore, Madhya Pradesh, India (Remote)

- Pre-processed dataset of over 1 million rows in **Python**, performing Exploratory Data Analysis and Feature Engineering
- Created a data warehouse with **BigQuery**. Managed ETL workflows and generated DAGs using **Google Cloud Composer** built on **Apache Airflow**. Developed interactive dashboards on Google Data Studio with 20+ visualizations

PROJECTS

Library Management System | HTML, PHP, CSS, JavaScript, Bootstrap5, MySQL

- Developed a system for efficient library record management to enable users to maintain records of issued, available, and overdue books for faculty and students (BTech, MTech, and PhD).
- Simplify book viewing and issuing processes across college libraries.

Chrome Extension for Notifying CP Contests | HTML, CSS, JavaScript

- Developed a Chrome extension to simplify the process of tracking competitive programming contests.
- Displays details of upcoming contests from platforms like CodeForces, CodeChef, and AtCoder, significantly reducing the need for manual searching.

GroceryMate | Django, HTML, CSS

- Created and implemented a grocery checklist application that digitizes item tracking, leading to reduction in time spent managing grocery lists while increasing overall user satisfaction.
- Implemented features for adding, editing, and categorizing grocery items, improving user organization and convenience.

TECHNICAL SKILLS

Programming Languages: C/C++, Python

Development Tools & IDEs: Jupyter Notebook, Visual Studio Code, Spyder, Software Development, High Level Design, Low Level Design

Other Technologies/Frameworks: Linux, Git, Gitlab, GitHub, Django, HTML, CSS, JavaScript, MySQL

Relevant Libraries: Pandas, NumPy, Matplotlib

ACHIEVEMENTS AND EXTRA-CURRICULAR ACTIVITIES

- Ranked among the **Top 31** teams nationwide in the Smart Bag Creator Challenge by Flipkart GRiD 3.0, qualifying for Level 3.
- Secured **3rd** position in the Line Follower Bot Making competition organized by the Robotronics Club, IIT Mandi
- Awarded **1st** place in the intra-college cultural tournament featuring events from 6 cultural clubs.
- Placed **2nd** in the intra-college doodle-making competition.
- Received Special Mention in the Talent Showcase Event by IEEE Women In Engineering (WiE)
- Member of the Art Geeks Club at IIT Mandi and part of the publicity team for IIT Mandi's cultural and technical fest, EXODIA.
- Class **10th** and **12th** Topper.