AYUSH SRIVASTAVA

Course : **M.Sc. (Hons.)**, Physics and **B.E. (Hons.)**, Civil, 2025
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ACADEMIC DETAILS

COURSE	INSTITUTE/COLLEGE	BOARD/UNIVERSITY	SCORE	YEAR
CLASS XII	City International School	CBSE	93.8 %	2019
CLASS X	City International School	CBSE	10 CGPA	2017

Subjects / Electives	Differential Equations, Solid State Physics, Principles Of Management, Pattern Recognition, Probability and Statistics, Computer Programming, Computational Physics, NUCLEAR & PARTICLE PHY, Linear Algebra, Finite Element Method, NUCLEAR & PARTICLE PHY, ATOMIC & MOLECULAR PHY
Technical Proficiency	MySQL, Excel, Tableau, Power BI, Azure DevOps, Data Visualization, Data Analytics, Data Warehousing, HTML5, CSS, Express.js, React.js, Node.js, MongoDB, JavaScript, Python, C++, Pandas, NumPy, Data Structures, Algorithms, Object-Oriented Programming, Linux, MATLAB, Git

SUMMER INTERNSHIP / WORK EXPERIENCE

Embedded AI Intern, WILP   **Jan 2025 - Present**
- Developing **MATLAB** scripts to acquire real-time data from wireless sensors via **Raspberry Pi**, ensuring efficient communication.
- Implementing **AI-driven models** to **analyze sensor data** and **automate** irrigation by triggering water release based on moisture levels.
- **Designing machine learning algorithms** to predict irrigation needs and **enhance efficiency** using real-time and historical sensor data.

Product Lead, DeTrace   **Jan 2024 - May 2024**
- Developed product strategies in **TU Braunschweig incubated startup**, with cross-functional teams, for **data-driven insights**
- **Led market research** and **competitive analysis**, created **pitch decks** and developed a robust business model with company leads.
- Contributed to feature design and implementation, aligning with business goals and integrating with database systems dashboard.
- Spearheaded efforts by adapting to changing priorities, leveraged **digital twin** & ensured seamless **product success and optimization.**

PROJECTS

Data Analyst Portfolio Website – HTML, CSS, GitHub Pages - Data Analytics   **Apr 2025 - Present**
- Designed and deployed a personal portfolio website showcasing data analytics projects using GitHub Pages.
- **Data Cleaning** – Cleaned Nashville housing data using **SQL** in SSMS by removing duplicates, standardizing formats, and handling nulls.
- **COVID-19 Data Exploration** – Analyzed global trends in cases, deaths, and vaccinations with SQL; visualized findings in **Tableau**.
- **Tableau Dashboards** – Built **dashboards** highlighting insights from COVID-19, finance, and sports data for better decision-making.

Movie Revenue Correlation Analysis – Python & Data Visualization - Data Analytics   **Mar 2025 - Apr 2025**
- Performed EDA on movie data using **Pandas** and **NumPy** to analyze correlations; cleaned data by handling nulls and formatting issues.
- Visualized trends using **Matplotlib** and **Seaborn** with heatmaps, bar plots, and pair plots to uncover actionable insights.

Amazon Web Scraping Project - Data Analytics   **Feb 2025 - Mar 2025**
- Built a Python scraper using **BeautifulSoup** and **Requests** to extract Amazon product price, rating, and availability data.
- Automated data collection with Schedule, analyzed trends using **Pandas**, and visualized insights through Matplotlib and Seaborn plots.

POSITION OF RESPONSIBILITY

Coordinator - Capitol   **Apr 2022 - Apr 2023**
- **Increased registrations by 37%** and **profit by 14%** from the previous year's fest through effective planning and management.
- Ensured efficient communication between event teams, resolving issues quickly to maintain a seamless flow during the Capitol fest.

EXTRA CURRICULAR ACTIVITIES

Powerlifting Team
- Managed the powerlifting team during sports and off-campus events, overseeing operations, scheduling, and team preparation.
- **20% team membership** was **increased** and advocated for increase in **women's participation** within the team by **150%**

TEST SCORES

TEST NAME	DATE OF EXAM	SCORE
GATE DA (Data Science and AI)	Feb 15, 2025	Rank: 1992