ABHISHEK RANJAN

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SKILLS

- **Languages**:   C++, Python, JavaScript, HTML5, CSS3
- **Libraries/Frameworks**:   NumPy, Matplotlib, Pandas, Flask
- **Tools/Platforms**:   MySQL, Git, GitHub, VS Code, Jupyter, MS Excel, Tableau, Tableau Prep
- **Coursework**:   Data Structures & Algorithms, Operating Systems, DBMS, Computer Networking
- **Soft Skills**:   Problem-Solving, Team Player, Project Management, Flexible

INTERNSHIP / TRAINING

Board Infinity – Online Career-tech platform   Jun' 2024 – Jul' 2024

Summer Training:

- **About**: Learned and applied **Object-Oriented Programming (OOP)** principles in **C++**, including **encapsulation**, **inheritance**, **polymorphism**, and **abstraction**. Gained expertise in advanced **array** and **Data Structures & Algorithms (DSA)** for efficient **problem-solving** and **competitive programming**.
- **Project Overview**: Developed a **Library Management System** in **C++** with a structured and scalable design. Optimized **data structures** for efficient book records, user accounts, and transactions. Implemented **file handling** for persistent storage and seamless data retrieval. Designed an **interactive menu-driven interface** with **error handling** to enhance system reliability and user experience.

PROJECTS

Smart Cart – AI-Powered Personalized E-Commerce   Since Jan' 2025

- Led a competitive project for the "Smart Shopping: Data and AI for Personalized E-Commerce" challenge to create an AI-driven personalized shopping experience
- Conceptualized and built Smart Cart, an intelligent e-commerce platform powered by a multi-agent system that understands and adapts to user preferences
- Crafted a fully responsive, visually engaging web app featuring animated UI, interactive dashboards
- Delivered a polished, competition-ready solution that boosted simulated user engagement by 40% and earned high praise from mentors and judges
- **Tech**: HTML5, CSS3, JavaScript, Python, Flask, SQLite

Power BI Dashboard – Food Impact on Indians   Mar' 2025 - Apr' 2025

- Designed an interactive dashboard in Power BI to analyze how regional food habits influence health and lifestyle across India
- Integrated demographic and nutritional datasets, uncovering significant correlations between dietary patterns and health outcomes
- Used custom visuals, thematic elements, and responsive layout techniques to enhance user experience
- The dashboard provided actionable insights, promoting greater awareness of regional food behaviours and the importance of balanced diets
- **Tech**: Power BI, DAX, Power Query, Custom Visuals

CERTIFICATES

- Python Basic || HackerRank   Jan' 2025
- Mastering Data Structures and Algorithms - Board Infinity   Jul' 2024
- Data Structures and Algorithms || Udemy   Feb' 2024
- Programming in C++ - Coursera   Feb' 2024
- Introduction to Microsoft Excel || Coursera   Dec' 2022

ACHIEVEMENTS

- **Earned 5-star ratings in C++, Python and SQL on Hacker Rank**, showcasing strong proficiency in data structures, algorithms, problem-solving, and competitive programming.
- **Achieved a global rank of 6931** in the **GeeksforGeeks** C++ with DSA Contest among 1,00,000+ participants
- **Runner-up in the University English Quiz Competition (LPU, 2024),** showcasing strong language proficiency, quick critical thinking, and the ability to perform confidently in high-pressure academic settings

EDUCATION

Lovely Professional University   Phagwara, Punjab

*Bachelor of Technology - Computer Science and Engineering; **CGPA: 7.0***   *Since August 2022*

Shanti Niketan Jubilee School   Motihari, Bihar

*Intermediate; **Percentage: 69%***   *Apr' 2020 – Mar' 2021*

CS DAV Public School   Motihari, Bihar

*Matriculation; **Percentage: 63.5%***   *Apr' 2018 – Mar' 2019*