AYESHKANT RAY

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[Leetcode](#)

EDUCATION

- **VIT Bhopal University**   Sept 2022 - Present
  B. Tech CSE (Core) | CGPA: 8.38
- **Kendriya Vidyalaya Sector-8 R.K. Puram, New Delhi**   May 2021 - June 2022
  Higher Secondary | Percentage: 87%

SKILLS

- **Languages:** Python, MySQL, C, C++, HTML, CSS, Java, JavaScript.
- **Tools:** MS Excel, Canva. Visual Studio, Eclipse, MATLAB, GitHub, Git.
- **Frameworks/Technologies:** DMBS, MySQL
- **Core Competencies:** Foundation of Algo, Data Structure Algorithms.

EXPERIENCE

Tonbo Imaging (Software Intern)   *(Nov, 2024 – Jan, 2025)*

- Worked on the project *"Kernel Optimization for Faster Boot & Power Efficiency"*, **focusing on reducing system startup time and improving overall energy management.**
- Contributed to **analysing kernel boot sequences** and identifying optimization points for performance tuning.

PROJECTS

Library Management System   *(May, 2023)*
Python, MySQL

- Implemented a command-line based Library Management System to streamline book and user management operations.
- Integrated MySQL for persistent backend storage and managed all CRUD operations using Python's mysql.connector.
- Developed core features including book insertion, deletion, search (by title, author, genre), and borrow/return functionality.
- Strengthened understanding of relational database design, normalization, and SQL query optimization through hands-on implementation.

RESEARCH PAPER

Numerical and computational analysis on population control-

- **Developed and tested 5 innovative** population growth models incorporating diverse factors, improving the accuracy of predictions by 25%; findings were integral to the theoretical framework and cited by industry practitioners.
- **Authored detailed content for the research paper**, translating intricate computational analyses and findings into clear, accessible insights for both technical experts and general readers.
- **Teamed up with 5 members** to use machine learning and GPT in Python for simulating population trends and deriving impactful insights on control strategies.

EXTRA-CURRICULARS AND ACHIEVEMENTS

ACHIEVEMENTS

- **Completed a focused 100 Days of Code challenge** centered on C++ and Data Structures & Algorithms; solved 150+ coding problems, significantly strengthening algorithmic thinking and core programming skills.

POSITION OF RESPONSIBILITY

- **DSW Office Member - VIT Bhopal** University December 2022 – Ongoing, Managing Editor (Monthly Newsletter), April 2023- June 2023
- **Event Organizer – EV Club, VIT Bhopal**
  Organized and managed a major technical/non-technical event for the EV Club, coordination, and participation efforts.

ADDITIONAL INFORMATION

- **Hobbies**- Reading, Listening Music, Gaming, Swimming.
- **Languages:** English (Professional working proficiency), Hindi (Native or bilingual proficiency), Oriya, Bengali.