

AYUSHMAN RAY

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EDUCATION

- **VIT Bhopal University** Sept 2022 - Present
B. Tech in Computer Science and Engineering | **CGPA: 8.36**
- **Kendriya Vidyalaya Sector-8 R.K. Puram, New Delhi** May 2021 - June 2022
Senior Secondary | **Percentage: 90%**
- **Kendriya Vidyalaya No. 2 AFS Chakeri, Kanpur, UP** May 2019 - Aug 2020
Secondary School | **Percentage: 84.8%**

TECHNICAL SKILLS

- **Languages:** Python, Java, C, OOP with C++, SQL, HTML, CSS, JavaScript, Linux Kernel
- **Tools:** MS Excel, Visual Studio, Eclipse, MATLAB, Google Colab, Canva

EXPERIENCE

Software Intern – Tonbo Imaging Nov 2024 – Jan 2025

- Achieved **23% improvement in Linux kernel boot speed (35ms to 27ms)** through systematic analysis of system bottlenecks and implementation of targeted memory and configuration optimizations under technical mentorship
- Executed **comprehensive kernel performance tuning**, identifying 8+ critical bottlenecks and deploying solutions that enhanced startup performance by 23% and improved power efficiency by 15% across embedded system platforms
- Gained expertise in **low-level system optimization**, working directly with kernel parameters and boot sequences to deliver quantifiable performance improvements while maintaining system stability

RESEARCH PAPER

Numerical and computational analysis on population control

- Created 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
- Produced **comprehensive research documentation** that integrated computational modeling approaches for demographic forecasting, creating a replicable framework applicable to global population studies and international policy formulation

EXTRA-CURRICULARS AND ACHIEVEMENTS

ACHIEVEMENTS

- Completed a focused **100 Days of Code challenge** centered on Java and Data Structures & Algorithms; solved 100+ coding problems, significantly strengthening algorithmic thinking and core programming skills
- Led cross-functional development team of **5 engineers** to co-create "**Cool Veil**" smart cooling jacket, securing intellectual property rights and delivering a functional prototype that reduced ambient temperature by 12-18°C within 3 minutes of activation

EXTRACURRICULAR

- **DSW Office Member** December 2022 – August 2025, Managing Editor Team (Monthly Newsletter), April 2023 - June 2023
- Led end-to-end event planning and execution for EV Club's flagship "ROBOX 1.0" workshop (Sept 16, 2023), managing logistics for 80+ participants, securing industry expert speakers, and facilitating practical EV construction sessions using Arduino-based development kits
- Managed technical operations for **AdViTyा 2025** (3-day college fest), supervising 40+ technical events, resolving real-time technical difficulties, and ensuring zero major disruptions through systematic workflow monitoring and rapid response protocols

POSITION OF RESPONSIBILITY

- **Technical Secretary – Student Council – VIT Bhopal University** Aug 2024 – Aug 2025
Served as Technical Secretary of the Student Council, overseeing 40+ technical clubs, chapters and communities throughout tenure. Coordinated event planning, resource allocation, and collected, managed and organized post-event reports from all participating organizations. Acted as primary liaison between technical clubs and administration while managing comprehensive documentation including Excel data consolidation, freshman orientation presentations, and official college materials across multiple platforms.
- **Technical Lead – GSOC Innovators Club – VIT Bhopal University** Jan 2025 – July 2025
As Technical Lead of the GSOC Innovators Club, we spearheaded the organization and execution of "Summer of CodeFest '25" the club's inaugural hackathon event. Led technical sessions on GitHub and version control for 100+ participants, mentored teams throughout the 2-day event. Coordinated with cross-functional teams including anchors, quiz coordinators, and backend support to ensure seamless event delivery.

CERTIFICATES

NPTEL- Market Analytics	Jan – Apr 2025
NPTEL- Cloud Computing	Jan – Apr 2024
IBM- AI Engineering Professional Certificate	Dec 2023
AWS- Getting Started with Data Analytics on AWS	Aug 2023
AWS- Introduction to Machine Learning on AWS	Jun 2023
Johns Hopkins University- A Crash Course in Data Science	Jun 2023