AVINASH BHURKE

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Education

Vishwakarma Institute of technology, Pune, India   **2023–2027**_(Expected)_
- Third year - Computer Engineering - **CGPA: 8.63**

Blue Bells Jr. College, India   **2022-2023**
- _Class XII , Aggregate:63.4%_

Universal English Medium School, India   **2020-2021**
- _Class X, Percentage marks: **93.20**_

Skills

C++ , C , Machine Learning , JavaScript , NodeJS , React , MongoDB , MySQL , Git, AIML, RAG, ChromaDB,SQLite3, Deep Learning.

Projects

Voice Over Generation Bot
- Commentary Bot with API Integration - Developed a Python - based tool to generate voiceover scripts from video frames using OpenAI and Gemini APIs.
- Integrated video processing (OpenCV) and text-to-speech (gTTS), automating commentary for 100+ frames.

Virtual Operating System simulation (MOS)
- OS Virtual Simulation (Phase 1) -Built a C++-based simulation of a multiprogramming OS with memory management and job execution.
- Implemented interrupt handling (SI) for read, write, and terminate operations, processing 10-word blocks.

Online Bookstore (Data Base Management System)

- Led a team of 4 to develop a PHP-based online bookstore with MySQL database for books and orders.
- Designed stored procedures and triggers, optimizing genre-based queries and logging for 50+ book entries.

Academic and Extracurricular Achievements

- 2x Scopus Indexed Research Papers Published ([link](#))
- Published "_Smart Automated Table Cleaning_" research paper in a Scopus-indexed journal ([link](#))
- Published a research paper titled _"Morse Code Based Two-Way Communication Device for Visually Impaired and Mute"_ at the 3rd IEEE International Conference on Device Intelligence, Computing, and Communication Technologies (DICCT-2025), Graphic Era University, Dehradun. ([link](#))
- Ranked 482 out of 5,000 students in Geeks for Geeks institute coding leaderboard.

Positions of Responsibility

DSC | AIML-Team Member   **Nov'24 - Present**
- Conducted research on integrating Convolutional Neural Networks (CNN) with other neural networks, contributing to team whitepapers.
- Organized speaker sessions, boosting attendance by 15% through effective publicity efforts.

EPEC | Outreach and Publicity volunteer   **Aug'23 – June'24**
- Supported publicity for college Techfest, increasing attendance by 20% via social media.
- Recruited 50+ participants for college tech fest, increasing event visibility by 15%