

# ANKUSH KAPOOR

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## EDUCATION

### Vidyalankar Institute of Technology

Bachelor of Technology in Computer Engineering

Mumbai, India  
Sept 2024 – Present

- First Year - CGPA: **10.0**
- Second Year, currently ongoing

### Seth Hirachand Mutha School (CBSE Board)

Kalyan, India

- Class XII - **86%** 2024
- Class X - **91%** 2022

## EXPERIENCE

### Open World Holidays Framework (Open Source Contributor)

Jan 2025 – June 2025

Python Framework

Remote — [GitHub PRs](#)

- Ranked **7th out of 2300+** contributors nationally in Google Winter of Code (WoC) 2024.
- Added public holidays for **India, Nepal, and Mongolia**, covering fixed and variable dates, and lunar calendar-based rules.
- Implemented **Hindi** and **Mongolian** translations to improve localization and accessibility.
- Wrote and maintained comprehensive **unit tests** to validate dynamic holiday calculations.
- Contributed to a large-scale **Python-based database** and participated in detailed code reviews.
- Technologies: **Python, Git, GitHub, Data Processing, Open Source Collaboration**

## PROJECTS

### KapoorVM (Custom Virtual Machine in C) | C, Linux, GCC, Git

[GitHub](#)

- Built a 16-bit virtual CPU with a custom instruction set and 65 KB of virtual memory.
- Implemented basic opcodes to move immediate values into registers and run a test program.
- Designed modular VM components for clean separation of CPU, memory, and instruction handling.

### Alloc (Custom Memory Allocator in C) | C, Linux, NASM, GCC

[GitHub](#)

- Created a 32-bit allocator mimicking `malloc()` and `free()` over a 1 GB virtual heap.
- Implemented `alloc(bytes)` to allocate memory in words by taking size in bytes as input.
- Added `destroy()` for secure deallocation with memory zeroing to prevent data leakage.
- Built packed headers, manual tracking, macros for KB/MB/GB allocation, and a `show()` debugger.

### CodeNexus (Custom Code Editor for Python) | Python, PyQt5, QScintilla, Jedi

[GitHub](#)

- Developed a tab-based code editor with syntax highlighting, file explorer, and autocomplete.
- Implemented a threaded AutoCompleter using `jedi` and a custom `QsciLexer`.
- Enabled one-click code execution via subprocess in CMD.
- Integrated file actions with `QTreeView` and added keyboard shortcuts.

### Email Unsubscriber (Inbox Automation Tool) | Python, IMAP, SMTP, BeautifulSoup, requests

[GitHub](#)

- Automated email unsubscription by scanning Gmail inbox via IMAP and locating unsubscribe links.
- Parsed links using BeautifulSoup and text-matching logic.
- Visited each link via `requests` and logged success/failure locally.
- Used `dotenv` to securely manage credentials.

## EXTRACURRICULAR ACTIVITY

### Our Tech Community (OTC) | [ourtech.community](https://ourtech.community)

Jul 2025 – Present

Core Team Member

- As part of the OTC core team, contribute to overseeing flagship initiatives such as CatchUps, Talks, and organizational operations, driving collaboration within the tech community.
- Manage and grow a vibrant, inclusive, and open for all tech-driven community.

## SKILLS

**Languages:** C, Python, Java, MySQL, HTML, CSS

**Tools & Environments:** Git, GitHub, Makefile, Linux, Windows, VS Code, Neovim