

## Vighnesh Singhal

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## SKILLS

- **Operating Systems:** Windows, Linux.
- **Skills:** C, C++, Java, Python, DSA.
- **Platforms:** Dev C++, VS Code, CodeBlocks, Pycharm, Git Bash, GitHub, VirtualBox, Google Colab.
- **Frameworks:** Streamlit, Langchain.

## EXPERIENCE

**NSS Volunteer**, Graphic Era Deemed to be University (Oct 2022 - Feb 2024)

Coordinated numerous campus events during tenure as NSS Volunteer (Oct 2022 - Feb 2024), achieving a 30% rise in event attendance and earning accolades for exceptional organizational skills and community engagement

**Research Intern**, Technology Business Incubator (TBI), Graphic Era Deemed to be University (July 2024 - October 2024)

Engaged in research tasks with a focus on innovation and technology development, contributing to various projects within a hybrid working environment. Potential for extension based on performance.

## PROJECTS

- **Uttarakhand Trip Planning Application (Python Programming)** (April 2024- August2024): Developed a Streamlit-based Uttarakhand trip planner using NVIDIA AI and LangChain for intelligent itinerary generation, integrating PDF document retrieval, vector embeddings, and dynamic map links for enhanced user experience.
- **Data Talk (Python Programming)** (June 2024 - July 2024): Developed a Streamlit app utilizing Google's Gemini model to convert natural language queries into SQL, enabling seamless database interaction. Includes documentation and a user-friendly interface for efficient data retrieval.
- **Authentication App with CAPTCHA Verification (Python Programming)** (Jan 2024 - March 2024): Developed a Tkinter-based authentication app featuring username/password input and a CAPTCHA challenge. The app uses OCR to verify drawn CAPTCHA, enhancing security in login processes.
- **Secure Messaging Application with Text Encryption and Decryption (Python Programming)** (Nov 2023 - Jan 2024): In this Project, This Python script implements a custom encryption algorithm using bitwise XOR operations. It divides input strings into four parts and generates random keys for each part, ensuring robust encryption. The program provides encryption and decryption functionalities, demonstrating proficiency in Python programming and cryptographic techniques.

## EDUCATION

### • Sept 2022 - Present (Expected Graduation: May 2026)

B. Tech in CSE (Computer Science Engineering), Graphic Era Hill University, 2022 GPA (maintain if applicable)

### • 2020

12th, U.K Bd, R.K Inter College, 74.80%

### • 2018

10th, U.K Bd, Saraswati Vidya Mandir, 70.20%

## CERTIFICATES/COURSES

- **Python Programming Course (Blaze Forge)** - Successfully completed the course of python programming.
- **Python Basics (HackerRank)** - Successfully completed the basic python programming test.
- **NSS B Certificate (National Service Scheme)** - Successfully completed volunteering work in NSS.
- **Java Basics (HackerRank)** - Successfully cleared the assessment for basic java programming test.