

[Github](#)[Linkedin](#)[LeetCode](#)

# VAIBHAV SINGH

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FRESHER

## EDUCATION

### • CLASS-XII

DEHRADUN PUBLIC  
SCHOOL , GZB [CBSE]

2019-2020

90%

### • B-TECH

JAYPEE INSTITUTE OF  
INFORMATION  
TECHNOLOGY NOIDA ,  
SEC-62

2021-2025

CGPA-7.3

## SKILLS

Communication, Detail oriented, Fast Learner Adaptability, Strategic planning, Dedicated team player, Effective time management, Ability to work under pressure

## TECH SKILLS

- **Advanced Skills:** , Python, SQL, C++, C
- **Intermediate Skills:** , HTML, JavaScript, Express JS, MongoDB
- Foundational Knowledge: CSS, PHP

## HOBBIES

- HANDBALL
- FITNESS
- GAMING

## PROFILE

I'm an AI enthusiast with a strong base in coding, problem-solving, and a logical mindset. Passionate about analyzing complex challenges, I thrive on researching, designing, and developing innovative solutions. Always driven by the insatiable desire to learn and evolve in this ever-changing landscape of technology.

## EXPERIENCE

- **Data Science Intern at Oriserve:**
  - Collaborated on AI-driven chatbot development and automation solutions, leveraging models like **BERT**, **Pyannote**, **NVIDIA NeMo**, etc and frameworks like **Pandas**, **Pytorch**, **Plotly**, etc to enhance user engagement and operational efficiency.
  - Designed and deployed scalable **FastAPI** services to integrate AI functionalities, ensuring optimized system performance and seamless user experiences.
  - Built robust **Data pipelines** for **TTS** and **STT** datasets, enabling efficient preprocessing, training, and evaluation workflows while applying prompt engineering to refine model outputs for diverse use cases.
  - Gained hands-on experience in developing real-world AI applications, focusing on innovation, performance optimization, and advanced speech processing techniques.
- **Web development Intern at The Sparks Foundation:** Using MONGODB,HANDLEBARS,HTML, JAVASCRIPT AND CSS Developed a Basic Dynamic banking website<[TSF](#)>.
- **Participated in BITBOX by GDSC IIIT SEC 128:** This 12-hour long hackathon, learnt Stress management and work in a professional environment.
- **Google Cloud Study Jams:**Earned various skills badges from google cloud courses like [Generative AI Arcade Game](#) ,[Google Cloud Computing Foundations](#) etc.

## PROJECTS

- 1.[CryptoniX](#):
  - Explored cryptic world with features like cyphers, cryptic word clue solver, password strength checker, encryption, decryption, and steganography.
  - Implemented DSA CPP concepts: maps, LinkedList, vectors, searching, recursion, hashing, collision handling.
- 2.[CAVEMEN](#):
  - Designed and implemented a multi-agent game "Cavemen" inspired by Wumpus World, featuring human vs AI competition, gold collection, and battles against the Wumpus monster.
- 3.[PyTone](#):
  - Recognizing Real-Time speech, Text Emotion using different ML models.
  - Implemented with Python, PyTorch, and TensorFlow to enhance accuracy and performance.
- 4.[BCI Games](#):
  - Developed an interactive game using Emotiv Epoch+ BCI headset, enabling control through brain signals and facial expressions.
  - Implemented left/right movement control via brain patterns and smile detection for triggering in-game actions.
- 5.[AID for SPEECH and HEARING impaired](#):
  - [Real Time Speech and Text to ISL translation using NLP and using SIGML animation.](#)
  - [Used Python\(Flask\),JS,HTML,CSS,etc.](#)