

SANDESH NARAYAN

✉ sandeshnarayan81@gmail.com | 📞 +91-8318805509 | in linkedin.com/in/sandesh-narayan

EDUCATION

Indian Institute of Technology, Kanpur | *B.Tech, Mechanical Engineering* 2024

- CPI: 6.6/10.0

KEY PROJECTS

Static - Site - Generator (Python)

- Automated HTML page creation from markdown files, reducing manual effort in website updates by **80%**
- Implemented a template system for reusable design components
- Optimized file parsing efficiency, reducing processing time by 30%

Chirpy (Go)

- Created a lightweight micro blogging platform with real-time updates and integrated user authentication
- Designed an efficient database schema for optimized query performance
- Improved API response time by 40% through efficient caching techniques

Asteroids (Python)

- Built the classic Asteroids arcade game using Pygame, optimizing performance for low-end systems
- Designed physics-based movement and collision detection for realistic game-play
- Enforced a scoring and difficulty progression system

Book - bot (Python)

- Developed a text analysis tool to process and summarize books/documents
- Executed word frequency analysis and readability scoring features
- Added a graphical interface for user-friendly interaction

ACHIEVEMENTS

- **Won Intra - hall Volleyball Championship, Hall 2 (2023)** at IIT Kanpur.
- Ranked 3809 among 200 K+ students in JEE Advance 2018
- Ranked 3456 among 1.2 M+ students in JEE Mains 2018

TECHNICAL SKILLS

- **Programming Languages & Frameworks:** Proficient in **Python** Intermediate in **Go** (including HTTP Servers & Clients), Experienced in **C** (Memory Management), Familiar with **SQL**, and **Pygame** for game development.
- **Version Control & Collaboration:** Proficient with **Git** and **GitHub** for version control and collaboration
- **System Operations & Tools:** Proficient in **Linux** (file system navigation, package management) and Knowledge of **HTTP Protocols** (Servers and Clients in Go)
- **Software Development:** Applied **Object-Oriented Programming**, **Functional Programming**, **Debugging**, and **Testing** in multiple projects
- **Data Structures & Algorithms:** Strong understanding of algorithms and data structures in Python (e.g., Stacks, Queues, Linked Lists, Binary Trees, Sorting Algorithms)

EXTRA - CURRICULAR ACTIVITIES

- **Active NSS Volunteer:** Participated in multiple social initiatives at IIT Kanpur
- **Organized Cleanliness Drive:** Led efforts to clean IIT Gate under NSS IIT Kanpur's initiative