

TATHAGATA SUR

Kolkata, West Bengal

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Education

Jadavpur University, Kolkata

Bachelor of Engineering in Computer Science **SGPA - 8.66**

Oct. 2023 – June 2027

West Bengal, India

Vivekananda Mission School, Kolkata

Indian School Certificate Examination **Percentage - 94.8 %**

2009 – 2021

West Bengal, India

Technical Skills

Languages: Java, C, Python, HTML, CSS, C++, SQL, JavaScript

Technologies / Tools: Git, GitHub, NumPy, Pandas, Matplotlib, Jupyter Notebook, Linux/Unix Shell

Projects

YouTube Video Downloader | *Python, yt-dlp, CLI* | [Link](#)

- Built a simple command-line tool that downloads YouTube videos, shorts, and past live streams with quality selection options.
- Implemented automatic error handling for private videos, live streams, and YouTube's server-side ads (SSAP) with fallback methods.
- Added user-friendly features including download location memory, input validation, and clear progress feedback for seamless experience.

Pomodoro Timer | *Python, CLI, Productivity* | [Link](#)

- Developed an interactive command-line based Pomodoro Timer allowing users to configure work and break durations at runtime.
- Implemented real-time countdowns, session tracking, dynamic progress bars, and visual interface updates using terminal-based techniques.
- Designed the project using object-oriented principles for clean organization and future extensibility (e.g., notification support, sound alerts).

Library Management System | *Java, OOP, CLI* | [Link](#)

- Developed a command-line based library system demonstrating all 4 pillars of OOP — Abstraction, Encapsulation, Inheritance, and Polymorphism.
- Implemented member management, item borrowing/returning, and dynamic item listings using abstract base classes and polymorphic method calls.
- Enabled scalable and maintainable design with separation of concerns, type-safe operations, and interactive menu-driven interface.

Achievements

- * **3-star Java** Coder at **Codechef** | [Link](#)
- * Secured a **global rank** of **392** in Codechef's Starters 184 Division 2 (Rated).
- * Solved **1200+** problems in **Java** across various coding platforms

Profile Links

- * [LeetCode](#)
- * [Codeforces](#)
- * [GeeksforGeeks](#)