

JYOTIRMAY BISWAS

Kolkata, India | jyotirmaybiswas.workspace@gmail.com | +91 8017760704 | linkedin.com/in/jyotirmay-biswas | github.com/Jyotirmay-ai

CAREER OBJECTIVE

Computer Science undergraduate with strong Python fundamentals and hands-on experience debugging and building real-world projects — including an AI-driven candidate ranking system using LLMs, embeddings, and vector search — seeking to contribute as a Python Developer at Parsewave. Comfortable working independently across Linux, Docker, and AI coding tools such as Cursor and Claude Code, eager to help build the tasks, tests, and datasets that push frontier AI models to solve harder problems.

TECHNICAL SKILLS

Programming Languages: Python

Web Technologies: HTML5, CSS3, JavaScript

Databases: MySQL

Tools & Platforms: GitHub, VS Code, Linux

Core Concepts: Object-Oriented Design, DBMS, Computer Networks, Operating Systems

PROJECTS

Ghost Protocol Chat (Onion-Chat-Project) | Personal Project

2025 | Tech Stack: Python, Flask, Socket.IO, Tor, Ngrok, HTML/CSS/JS

- Built a hybrid secure messaging application combining Tor onion routing with clear-web accessibility, using a Python/Flask backend and a static HTML/JS frontend deployed on Netlify.
- Implemented client-side AES-256 encryption so the server only ever relays ciphertext, ensuring a zero-trust architecture where messages are never readable server-side.
- Enabled real-time, ephemeral communication via WebSockets (Socket.IO) with no database — all messages exist only in RAM and are wiped once the session ends — and used Ngrok to tunnel a local Tor Hidden Service to the public internet.

AI Candidate Ranking System (India-runs-AI-ML-Project) | Hackathon Project / AI-ML Project

2026 | Tech Stack: Python, Pandas, SentenceTransformers (SBERT), FAISS, Groq LLM API

- Designed a two-stage Retrieval-Augmented Ranking (RAR) pipeline in Python to rank 100,000 job candidates, applying behavioral pre-filtering to remove 28% of unqualified candidates before AI compute.
- Built a hybrid semantic search combining TF-IDF and SBERT embeddings with FAISS vector indexing, narrowing 71,000 candidates down to a top-100 shortlist based on career-history narratives instead of keyword matching.
- Integrated the Groq LLM API (Llama-3.1-8b-instant) to score shortlisted candidates on four dimensions with explainable reasoning, and exported ranked results with incremental checkpointing to CSV/Excel.

EDUCATION

BTECH in Computer Science and Engineering | Dr. Sudhir Chandra Sur Institute of Technology and Sports Complex

Expected Graduation: 2028 | Kolkata, India | CGPA: X.XX / 10

- Relevant Coursework: Object-Oriented Programming, Database Management Systems, Operating Systems, Computer Networks

Diploma in Computer Science and Technology, State Board | K. G. Engineering Institute

Year of Passing: 2025 | Percentage/CGPA: XX%

CERTIFICATIONS

- Certification Name — Issuing Platform/Organization (Month Year)
- Certification Name — Issuing Platform/Organization (Month Year)