

# SOUNAK DUTTA

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## EDUCATION

|   |   |
|---|---|
| <b>VIT University, India</b><br>Bachelor of Technology (B.Tech), Computer Science and Engineering | <b>-July 2026</b><br><i>CGPA: 8.1</i>       |
| <b>Delhi Public School, Ruby Park, Kolkata</b><br>Higher Secondary Education (CBSE)               | <b>-July 2021</b><br><i>Percentage: 81%</i> |
| <b>South Point High School, Kolkata</b><br>Secondary Education (CBSE)                             | <b>-July 2019</b><br><i>Percentage: 91%</i> |

## TECHNICAL SKILLS

**Programming Languages:** Java (OOP, DSA), Python

**Databases:** MySQL, PostgreSQL

**Tools & Frameworks:** Spring Boot, Docker, Pandas, NumPy, Scikit-learn, TensorFlow, OpenCV, MediaPipe

**Core Knowledge:** Data Structures & Algorithms, OOPs, Machine Learning, Data Science, Computer Vision, Reinforcement Learning, Operating Systems

**Certifications:** AWS Academy Graduate: Cloud Architecting, Cloud Foundation, AWS Educate: Introduction to Cloud 101, Getting Started with Storage, Applied Machine Learning in Python: University of Michigan (Coursera) – Practical ML model building course

## PROJECTS

|   |             |
|---|-------------|
| <b>Blog Management Backend</b> <i>Spring Boot, MySQL, Docker</i>  | <b>2025</b> |
| <ul style="list-style-type: none"><li>Developed RESTful backend and APIs for user authentication, blog posts, comments, and likes.</li><li>Managed data models with Spring Data JPA &amp; MySQL, secured APIs with JWT and role-based access.</li><li>Containerized application with Docker and created API documentation, reducing onboarding time for new developers by 40%.</li></ul>  |             |
| <b>Real-Time Chat Application</b> <i>Spring Boot, WebSockets, Docker</i>  | <b>2025</b> |
| <ul style="list-style-type: none"><li>Built real-time chat backend with WebSockets and JWT-based authentication.</li><li>Implemented role-based access control (RBAC), and prevented unauthorized access across 100+ concurrent chat sessions.</li><li>Developed APIs for user management, chat rooms, and message history with JPA &amp; PostgreSQL, ensuring data persistence and scalability.</li><li>Containerized with Docker and deployed on DigitalOcean, achieving 99.9% uptime in testing.</li></ul> |             |
| <b>Sentiment Analysis Project</b> <i>Python, NLP, BiLSTM, BiGRU, BERT</i>   | <b>2025</b> |
| <ul style="list-style-type: none"><li>Trained and benchmarked NLP models (BiLSTM, BiGRU, BERT) on 50k+ text samples for sentiment classification.</li><li>Compared model performance using accuracy and other metrics to identify the best-performing approach. Achieved 89% accuracy with BERT, outperforming BiLSTM and BiGRU by 5–7%.</li><li>Preprocessed data, handled embeddings, and optimized models for improved prediction accuracy.</li></ul>  |             |

## CO-CURRICULAR ACTIVITIES & ACHIEVEMENTS

**Public Speaker & Chess Player:** Judged 10+ debating/public speaking events and captained school chess team, securing 2 golds, 1 silver, and 1 bronze.

**Student Event Coordinator, Robotics Club:** Organized and led a robotics workshop for 70+ students, boosting club participation by 30%. Introduced event logistics and team management practices adopted for future club operations.