

# Somsubhro Chakrabarti

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LinkedIn — GitHub

## Professional Summary

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Computer Science undergraduate skilled in **Java, Python, C++, and full-stack development**, with experience in **machine learning, API development, and cloud computing**. Strong foundation in **data structures, algorithms, and OOP**, and a proven ability to build scalable, high-performance applications.

## Education

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- **B.Tech in Computer Science Engineering** — VIT Bhopal University, Madhya Pradesh  
CGPA: **8.07** (up to 7<sup>th</sup> semester) Oct 2022 – Present
- **Class X (West Bengal State Board)** — St. Lawrence High School, Kolkata  
Percentage: **80.14%** 2020
- **Class XII (West Bengal State Board)** — St. Lawrence High School, Kolkata  
Percentage: **70%** 2022

## Technical Skills

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**Languages:** Java, Python, C, C++

**Web:** HTML, CSS, JavaScript, React

**Databases:** MySQL, MongoDB

**Tools:** Git, GitHub, VS Code, Linux, AWS

**Core:** Data Structures & Algorithms, OOP, Machine Learning, API Development, RESTful Services

## Projects

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### Tesla Stock Market Prediction (Machine Learning)

- Built a predictive model using **Python, Pandas, Scikit-learn, XGBoost** to forecast Tesla stock prices from historical datasets.
- Applied **feature engineering** (moving averages, volatility analysis) to improve model accuracy.
- Visualized market trends with **Matplotlib** and **Seaborn** to provide actionable investment insights.

### 2D Projectile Motion Simulator

- Developed an interactive simulation tool using **JavaScript** and **HTML Canvas** to visualize projectile motion.
- Enabled adjustable parameters (velocity, angle, gravity) for real-time trajectory analysis.
- Generated **real-time graphs** for enhanced physics learning.

### Credit Card Fraud Detection (Machine Learning)

- Applied **Random Forest** and **Logistic Regression** algorithms to detect fraudulent transactions in anonymized datasets.
- Achieved **95% precision** through hyperparameter tuning and k-fold cross-validation.
- Deployed the trained model via **Flask** for instant, web-based fraud detection.

## Certifications & Achievements

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- **AWS Solutions Architect – Associate** (2025) — Designed scalable cloud solutions (**EC2, S3, Lambda, VPC**).
- **MongoDB Associate Database Administrator** (2025) — Performance tuning, indexing, security configuration.
- **NPTEL – Marketing Analytics (Elite)** — Applied data analytics, statistical modeling for marketing.
- **NPTEL – Cloud Computing (IIT Kharagpur)** — Cloud models, virtualization, distributed computing.
- **Coursera – Bits and Bytes of Networking** — IP addressing, DNS, networking protocols.
- **Python Essentials – VITYARTHI** (2023) — Python, OOP concepts, data handling.
- **Digital Marketing Foundations** (2023) — SEO, content strategy, analytics tools.
- **Matlab Simulink Onramp** (2022) — Model-based design, simulation.

## Positions of Responsibility

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**iOS Club – Social Media Team Member** — Managed content creation and engagement, boosting club's online reach by **30%**.

## Languages

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English, Bengali, Hindi