Soham Datta

3rd Year B. Tech Student
Computer Science and Technology
Vellore Institute of Technology, Chennai

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Academic Details

Year	Degree	Institute	Percentage/CGPA
2022 - Present	B. Tech in Computer Science & Engineering	Vellore Institute of Technology, Chennai	CGPA = 9.00
2022	Class XII CBSE-AISSCE	South Point High School, Kolkata	92%
2020	Class X CBSE-AISSE	South Point High School, Kolkata	97%

Objective

To pursue graduate studies in Computer Science and Engineering, leading to a career in research. I am also interested in *Internet of Things* (*IoT*) and *Blockchain technology*.
I have a keen interest towards the rising growth of *Augmented and Virtual Reality* (*AR/VR*).

Work Experience

- ***Level 1 Freelancer***, ***Fiverr***   2021-2023

  I gained extensive experience as a *part-time freelancer* on *Fiverr*, dedicating over *three years* to serving a *diverse clientele* of over *75 clients worldwide*. My focus was on addressing their *software requirements* and facilitating the *establishment of their online businesses*. With a commitment to excellence, I consistently delivered on-time results, often exceeding expectations by providing additional services. As evidenced by *a consistent 5-star rating* and *positive reviews* from each client, my dedication to *quality and customer satisfaction* remained paramount throughout my tenure.

- ***Founded my startup***, ***infynite.in***
  ~ Empowering Minds, Shaping Futures   2024

  Established and launched '*infynite*' in the summer of 2024, a startup dedicated to providing *high-quality mock tests* for students preparing for *competitive examinations*. Directed strategic initiatives to offer online examination services for coaching centers, *enhancing the digital learning experience* for students.

Internship Experience

- ***Software Intern, Daytona***   Summer 2024

  Developed an AI-driven code search system that parses large codebases into contextually meaningful chunks, generating vector embeddings for high-accuracy search and retrieval. Implemented efficient code parsing, embedding generation, and vector

database storage (ChromaDB), enabling developers to locate code segments and understand dependencies seamlessly within extensive code repositories.

- ***Software Intern, B4B Technologies Pvt. Ltd.***   Summer 2024

  Developed an internal admin dashboard using NextJS and Python to optimize a shuttle cab service. Key responsibilities included managing overall system operations, analyzing ride metrics, handling customer support inquiries, and implementing new route additions via Google Maps API polyline encodings.

- ***Software Intern, Starco Degen Pvt. Ltd.***   Summer 2024

  Developed backend microservices using Python, FastAPI, and Telethon. Integrated various APIs and implemented a Telegram mini-app for enhanced user experience.

Major Projects

- ***Blockchain based centralized Election system***
  "Artificial Intelligence in Elections", Hackathon Project   *2024*

  We developed a robust and secure system enabling voters to cast their ballots for their constituency irrespective of their geographic location during elections. The model aimed to digitalize the electoral process using *Blockchain technology*, thereby eliminating instances of false voting. Additionally, we integrated an *AI-powered chatbot* to assist political parties in gaining insights into the demands of the electorate and identifying areas for improvement.

- ***Predictive Bot to determine stock/crypto token prices*** *based on the market trends and timeframes using the **Prophet Model***   *2023*
  Client Project, Freelance, Fiverr

  This project leveraged *Facebook's Prophet model* to perform *time series analysis*, a statistical method involving the collection of data at consistent intervals to identify patterns and trends. The goal was to predict the price of a stock or cryptocurrency token based on historical *OHLCV* data. This predictive model was integrated with various trading analysis tools, including *Bollinger Bands*, *Stochastic Oscillator*, *Fibonacci Retracement Levels*, *Relative Strength Index* (RSI), *SMA, EMA,* and *MACD*. The data was visualized using an interactive graphical interface created with *Streamlit* and *Matplotlib*, enhancing the user experience.

Open-Source Contributions

- ***Published a package (csv2pdf) to Python Package Index (PyPI)***
  ~ More than 35k downloads   *2021*

  I published a Python package that enables users to convert *.csv* files to *.pdf* files with a single line of code. The module also includes a *command-line interface* (*CLI*) tool, further simplifying the file conversion process.

- ***Improved the pyTelegramBotAPI library***
  ~ with over 500k downloads per month   *2022*

Contributed to the advancement of the *pyTelegramBotAPI* library to accommodate *Telegram's WebApps* within bots' feature release in 2022. Developed two key functions to optimize the *parsing of WebApp data*, incorporating *encryption algorithms* such as *HMAC* and *SHA-256* for enhanced security measures.

Computer Skills

- ***Programming Languages:***

  Python, Java, C/C++, PHP, MySQL, Django, Flask, HTML, CSS, JavaScript, ReactJS, NodeJS, MongoDB, Firebase, Bash, Verilog HDL, MIPS32 (Assembly Language).

- ***Software Packages:*** MATLAB, OpenCV, R-Studio, Arduino IDE, Framer, Webflow.

- ***Platforms:*** Linux, Windows and Visual Studio Code.

Position of Responsibility

- ***Technical Leader at Product Innovation Club, VIT Chennai***

  Directed technical strategy and project development overseeing project development and fostering innovation within the team.

- ***Technical Head for Solve-A-Thon, VIT Chennai***

  Acted as the technical head for the *Solve-A-Thon* event, an initiative by the *Hostel Committee of VIT Chennai* aimed at facilitating hostellers in devising effective solutions for hostel-related challenges. Developed the *event website* and *an online portal* for *project submission and judging*, ensuring *seamless coordination* and *efficient evaluation processes*.

References

- **Dr. David Raj Micheal**
  Associate Professor, Deputy Director Hostel, VIT Chennai
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- **Rajat Basu**
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