

Headline:

Hi, I'm Aritra. I am a pre-final year CS undergrad at IEM, Kolkata. I'm doing my bachelor of technology in Computer Science and Engineering. I've been a part of GSSOC'23, TSOC'23, SSOC'23, Hacktoberfest'22, GCCP'22, GWOC'22

About / Introduction:

My name is Aritra Ghosh.

I'm currently a student at the Institute of Engineering and Management, Kolkata, on track to graduate in 2025 with a GPA of 9.40.

My professional journey reflects my commitment to delivering innovative solutions and creating a tangible impact. I've gained valuable experience at renowned organizations. At Karmactive, I led the design and implementation of web pages, enhancing user experiences and engagement. As a Software Development Intern at CareEdge Solution Pvt. Ltd, I developed scalable and robust APIs in Python, automating ML model serving and building secure models for risk assessment, customer churn analysis, and categorization. I deployed secure and production-ready APIs. My freelance work as a web developer involved overseeing six projects, all delivered on time and within budget. My expertise in optimizing website structure and implementing SEO/SEM strategies resulted in increased traffic and improved page rankings. I actively contribute to the open-source community, participating in programs such as GSSOC, SSOC, TSOC, and Hacktoberfest, reflecting my passion for collaboration and knowledge-sharing.

Proficient in a diverse technical stack, including MERN technologies, HTML/CSS, JavaScript, Django, Flask, and a comprehensive understanding of machine learning libraries, I'm particularly interested in Natural Language Processing (NLP).

As an enthusiastic problem solver, I tackle challenging queries daily on platforms like LeetCode and Codeforces. My dedication to expanding my skill set remains unwavering.

Beyond technology, I've authored research papers focusing on "Application AI in the prevention and Awareness of Domestic Violence" and "An Overview of Summarization." I've also achieved success in four national-level hackathons.

My active involvement as part of the technical team at Diversion 2022, an open-source hackathon organized by IEM Kolkata, underscores my dedication to community-driven initiatives. As the technical team co-lead in CodeIN Community, I orchestrated and led a team of 30 individuals.

I'm currently focused on refining template-based summarization models while seeking dynamic, fast-paced roles to apply my comprehensive skill set and knowledge.

Outside of my professional pursuits, I'm engaged in photo and video editing, extensive reading and music.

I'm eager to connect with fellow professionals, discuss innovative projects, and explore potential collaborative opportunities. Let's connect and channel our enthusiasm for technology and innovation!

SOME BACKGROUND:

- Born on 19th May 2003.

- From Kolkata, West Bengal, India
- Did my Schooling from South Point High School and Delhi Public School Ruby Park, Kolkata.
- Doing my Bachelors from Institute of Engineering and Management Kolkata.
- Proficient in Web Development and Machine Learning.
- Technologies I've worked with include MERN, HTML/CSS, JavaScript, Bootstrap, C, C++, Python, Tensorflow, YOLO, OpenCV, PyTorch, Pandas, Keras, Numpy, Bash, Linux, Git, Google Cloud, Appwrite, Postman, Docker, Firebase, React, LaTeX, Wordpress, VSCode and Matlab.

Education:

- Bachelor of Technology in Computer Science & Engineering - GPA: 9.4
Institute of Engineering & Management, Kolkata, 2025
- Higher Secondary Education, AISSCE - 92%
Delhi Public School, Ruby Park, Kolkata, 2021
- Secondary Education, AISSE - 95%
South Point High School, Kolkata, 2019

Work Experience:

- CAREEDGE GROUP - SDE INTERN
JULY 2023 - AUGUST 2023

Implemented a flexible Virtual KYC framework with a scalable credit scoring model to categorize customers into risk buckets with an F1 Score of 92.8

Accomplished 91% accuracy on real-time customer data set in predicting churn using stacked ML model of XGBoost, LightGBM and RandomForest.

Delivered a conversational Intelligence AI chatbot product based on 10 KPIs using LLMs and NLTK to calculate the probability of default of customers.

Modelling and Automation of ML model serving and performance tracking by creating scalable and robust APIs in Python.

- KARMACTIVE - WEB DEVELOPMENT INTERN
APRIL 2023 - JUNE 2023

Increased traffic and enhanced page ranking by improving website structure performing Search Engine.

Optimization(SEO) and Search Engine Management(SEM) for local improvements.

Edited existing codebases to improve browser compatibility and mobile responsiveness.

Designed and produced several webpages on the company's main website.

- WEB DEVELOPER - FREELANCE
JULY 2022 - DECEMBER 2022

Worked on web development projects using HTML, CSS, JavaScript, and PHP. Proficient in React.js, developed and maintained websites for clients, including e-commerce websites and CMS-based websites.

Used various web development frameworks and content management systems, such as WordPress, Drupal, and MERN.

Oversaw the full lifecycle of development for 6 projects with 100% on-time delivery while within budget.

- OPEN SOURCE
JULY 2020 - PRESENT

Py-Contributors: Maintained documentation for 6 Python-based projects, collaborating effectively with the team.

Intel Student Ambassadors: Deployed details of 2 new receivers to the community website, improving user experience.

Alphasaians: Updated 3 hyperlinks to the organizations contributing pages on the company website, improving accessibility

Hacktoberfest 2022: Worked on building ML Models, Datastructures (7 PRs Merged)

GSSOC 2023: 1. Developed a Debt Payoff planner model for a Fintech API. 2. Added endpoint to calculate bond valuation.

TSOC 2023: Worked on a Secure and efficient tokenisation solution for businesses on Bitcoin, equivalent to ERC1400 standard.

Skills:

AI/ML/DL, C AND C++, DATA SCIENCE, FULLSTACK WEB DEVELOPMENT, GRAPHIC DESIGN, PHOTO AND VIDEO EDITING, PYTHON

Courses and Certifications:

- Building Transformer Based NLP Applications
- Data Analytics For Machine Learning
- Blockchain Specialization
- Decentralized Applications
- Blockchain Platforms
- Smart Contracts

Projects:

- One.Edu
 - One.edu is a platform that can help students better manage their studies with an interactive dashboard and by providing them incentives for doing assignments on time, attending classes regularly and solving doubts of fellow batchmates.
 - Technologies Used - React, Node, MongoDB, HTML, CSS, JavaScript, Php, Netlify.
 - Link - "<https://aritra-ghosh.co/one.edu/>"

- Resume Scanner
 - An online applicant tracking system that matches the familiarity of an uploaded resume document to the provided job description and outputs a percentage score using OpenAI and Langchain and Hosted on Streamlit.
 - Technologies Used - Python, Langchain, OpenAI, Streamlit, LLM, NLP.
 - Link - "<https://resume-rater.streamlit.app/>"

- Summarizer
 - An app to summarize long texts and documents. The app is built using "txtai" a powerful NLP library. Txtai builds embeddings databases, which are a union of vector indexes and relational databases. This enables similarity search with SQL. Embeddings databases can stand on their own and/or serve as a powerful knowledge source for large language model (LLM) prompts. Technologies Used - Python, Langchain, OpenAI, Streamlit, LLM, NLP.
 - Link - "<https://summarizze.streamlit.app/>"

- Kanya.io
 - Kanya is a comprehensive and all inclusive platform which aims at supporting, uplifting and developing women of all ages, backgrounds and classes for ensuring that they receive financial assistance, legal support, medical aid and prenatal care through our web-application.
 - Technologies Used - React, Node, HTML, CSS, JavaScript, Php, Vercel.
 - Link - "<https://aritra-ghosh.co/kanya/>"

- Plagiarism Checker
 - A web-app that can detect plagiarism within text, providing a sentence-wise report with percentage of plagiarism and the link of the possible article from which the text is plagiarised.

- Technologies Used - CSS, PIP, JavaScript, Python, Flask, REGEX, BeautifulSoup, HTML5, Requests.
- Link - "<https://plagiarismchecker.thecleveridiot.repl.co/>"
- Matrix Vision
 - Ever wondered how would you look like in the matrix world?? Well now you can see yourself in it by using this tool.
 - REQUIRES ACCESS TO YOUR CAMERA.
 - Technologies Used - JavaScript, P5.Js, HTML/CSS.
 - Link - "https://aritra-ghosh.co/matrix_vision/matrix.html"
- Roundtable
 - A platform that fosters connection and learning by enabling users to ask questions, answer them, and interact with other users to share knowledge and information on a wide range of topics. Equipped with a answer voting system and a categorical arrangement of topics.
 - Technologies Used - React, Node, Nodemon, MongoDB, Postman, HTML, CSS, JavaScript, Php, Netlify.
 - Link - "<https://qclone.pages.dev/>"
- Portfolio Website
 - [NOT UPDATED TO CURRENT CV] Just a Simple portfolio website to showcase my work and to test my understanding of JavaScript.
 - Technologies Used - HTML, CSS, JS.
 - Link - "<https://aritra-ghosh.co/>"
- Luffy Wars
 - An interactive game made using the pygame library in python.
 - Technologies Used - Python, Pygame, Replit
 - Link - Removed Due to Privacy Resons.
- Gesture Control
 - Remove the need of a touchscreen or a mouse, directly control your PC with hand gestures.
 - Technologies Used - Python, JupyterNotebook, OpenCV, Pandas, Seaborn, Tensorflow, Keras
 - Link - Removed Due to Privacy Resons.
- Senmeter
 - A tool that uses AI to detect depression from the user's online presence.
 - Technologies Used - Python, JupyterNotebook, Pandas, Wordblob, Seaborn, Tensorflow, Keras.

- Link - Removed Due to Privacy Resons.
- Bios Engine
 - Predicting a players perfoence in upcoming matches based on a number of factors like previous performance, home ground advantage etc.
 - Technologies Used - Python, JuputerNotebook, Pandas, Seaborn, Tensorflow, Keras.
 - Link - Coming Soon

Achievements:

Authored And Published A Research Paper Titled “Application Of AI In Prevention And Awareness Of Domestic Violence” In IJSRED Volume 5 - Issue 5 [IJSRED-V5I5P63].

Year - 2023

Link - “<http://www.ijsred.com/volume5-issue5-part7.html>”

Second Position at SparkHack 7.0 of the Jadavpur University Convolution .

Year - 2023

Link -

“https://www.linkedin.com/posts/aritraghosh1905_hello-everyone-im-glad-to-announce-that-activity-7061234284430327808--WFu?utm_source=share&utm_medium=member_desktop”

Awarded National Winner In HackBrewer, Competing Against 700+ Participants.

Year - 2023

Link -

“https://www.linkedin.com/posts/aritraghosh1905_hackathon-winners-code-activity-7037406219279499264-z5EP?utm_source=share&utm_medium=member_desktop”

Earned National Winner Honour In CodeRush, Organized By The ByteMakers Club, With 400+ Participants.

Year - 2023

Link -

“https://www.linkedin.com/posts/aritraghosh1905_hackathon-winners-code-activity-7037406219279499264-z5EP?utm_source=share&utm_medium=member_desktop”

Received Best Open Innovation Award In DUHacks, A National-Level Hackathon That Attracted Over 1200 Participants.

Year - 2023

Link -

“https://www.linkedin.com/posts/aritraghosh1905_hackathon-winners-code-activity-7037406219279499264-z5EP?utm_source=share&utm_medium=member_desktop”

Achieved All India Top 10 In MozoHacks 4.0, Hosted By SRM University And Drawing In 560+ Participants.

Year - 2023

Link -

["https://www.linkedin.com/posts/aritraghosh1905_hackathon-winners-code-activity-7037406219279499264-z5EP?utm_source=share&utm_medium=member_desktop"](https://www.linkedin.com/posts/aritraghosh1905_hackathon-winners-code-activity-7037406219279499264-z5EP?utm_source=share&utm_medium=member_desktop)

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- Twitter - <https://twitter.com/ughhritra>
- GitHub - <https://github.com/TheCleverIdiot>
- Medium - <https://the-clever-idiot.medium.com/>