Aniruddha Chattopadhyay

+91-8017243383 | studyaniruddha@gmail.com | linkedin.com/in/aniruddha-chattopadhyay |
https://github.com/AniruddhaChattopadhyay

EDUCATION

Indian Institute of Technology, Kharagpur	2017 – 2022
B.Tech + M.Tech in Quality Engineering Design and Manufacturing (Industrial Electronics)	CGPA: 8.66/10.0

Minor in Computer Science and Engineering with Micro specialization in Artificial Intelligence

EXPERIENCE

Data Scientist | *Full Time* — Aug. 2022 – Present
AB InBev | Certificate — *Bangalore,India*

- Successfully delivered clustering to 6 key countries in Europe which has a potential value of more than **$2M**.
- Had to collaborate with **multiple** stakeholders to get alignment on the results and drive initiatives.
- Developed models to predict the risk of delay and risk of provision for the US and Canada during Internship
- Improved the existing model's F1 scores by more than a margin of 25% and the potential combined EBIDTA benefit of the project was **$1.5M**.
- Received The **Pint award** for my contribution.

Full Stack Android and Django Developer | *Intern* — Oct. 2019 – Aug. 2022
Lubble Technology | Certificate — *Remote*

- Tasked with building an android app with frontend in **Java** and backend using **Django**, **Node.Js** and **Firebase**
- Had to build and maintain multiple **REST APIs** in Django and write **cloud functions** for Firebase in Node.Js
- Had to maintain database of the Users using **MYSQL** and use technologies like **Celery** and **rabbit MQ**

Backend Engineer | *Intern* — Jan. 2021 – Apr. 2021
Rajput Lagn — | Certificate — *Remote*

- In charge of managing the backend for a matrimonial app in **Django**.
- Had to chip in and work in the frontend App occasionally which used **React Native**.
- Was also responsible for creating and maintaining an admin dashboard for the application made in **React.**

MLOps Platform Engineering | *Intern* — Dec. 2021 – Feb. 2022
bluebeak.ai — | Certificate — *Remote*

- Building command-line ETL tool capable of streaming data using Kafka stream from a source database to a sink database.
- Deploying the solution using **docker** and **Kubernetes** pipeline.
- Studying different frameworks like **gradio** and **streamlit** and recommending their use based on the use-case at hand.

Machine Learning Engineer | *Intern* — May. 2020 – Jun. 2020
StepsWatch | Certificate — *Remote*

- Built a python backend in **Flask** that delivers Visual graphs based on analysed data to a react native front end
- Created a pipeline for **Facial recognition** and face masking(**Gaussian Blur**)on videos built using **Dlib library**

Lead Fullstack Engineer | *Volunteer* — Jun. 2020 – Jul. 2020
Turn The Bus, NGO | Certificate — *Remote*

- Responsible for implementing new features and ensuring a seamless user experience on the organization's Android app.
- Contribute to the backend development utilizing the Django framework and OpenEDX resources to enhance the NGO's platform capabilities.
- Manage the deployment and maintenance of backend infrastructure on AWS, leveraging Kubernetes for orchestration in a scalable environment.
- Streamline AWS deployments through the automation of deployment processes using Terraform scripts.

Research & Development | *Intern* — Jun. 2020 – Jul. 2020
HSBC | Certificate — *Kolkata, India*

- Predicted stock option prices using Monte Carlo simulations in a quantum computer using **Qiskit Framework**
- Achieved **quadratic speed up** on error convergence of Monte Carlo thus showing potential for huge cost cutting
- Used the algorithm to Simulate stock price and validated the result using the **BlackScholes-Merton** model

Competitions and Awards

Winner GenAI Hackathon | Report   June 2023
- Winner of GenAI Hackathon hosted by Stellaris Venture Partners and Entrepreneur First from a pool of more than **200 participants**.
- Built a **prompt-to-video** tool incorporating features such as **intelligent** image selection, **sentiment-based** BGM selection, multi-themed transitions, and 7 different language support.

Winner HSBC AI Hackathon | Report   Oct. 2018
- Secured the 1st Position out of **98** participating teams for building a conversational AI chatbot using **tkinter**.
- Input of the user is processed using **NLP** and then passed to a **MLP neural network** to map to a symptom
- The symptom is then searched in a Neo4j graph database to find most likely disease of the the symptom

Winner among 2000 teams in AI-based onsite hackathon, vesAIthon | Report   Mar. 2019
- Built an in one Android app under the name 'Care4U' for physical and mental health maintenance of elderly
- Some of the salient features include **fall detection**, **IBM Watson-powered chatbot, and Mood recognition**
- Got recognition from major media houses such as *Times Now* and was officially shared from the director's page

Finalist in More than 5 National hachakthons | Report   2017-present
- Winner GenAI hackathon 'GenAI for India' hosted by Stellaris Venture Partner and Entrepreneurship First, 2023
- Winner VesAIThod with theme 'AI for good' where we built CARE4U.
- Winner HSBC 'AI for Medical Science' hackathon , 2018
- Runners up in Smart India Hackathon,2020)
- Finalist (top 8) in 'AI for Transportation' Hackathon by NEC (1400+ teams),2021

Publication in ACM/IEEE Joint Conference on Digital Libraries | Report   Aug. 2020
- Academic genealogy graphs (AGGs) identify the lineage of researchers and highlight the roles of mentors and academic institutions in the evolution of a discipline. In this poster, we study EduTree, the AGG of the discipline of education. We identify the major characteristics of EduTree including the main areas of research, the pioneering institutions, and the researchers with a high mentorship index

Best Project for M.Tech Thesis | Report   Apr. 2022
- Received the best project award for M.Tech thesis in the field of academic genealogy using graph network and topic modeling.

Projects and Co-Curricular

Automatic Teachers Feedback Form | *Term Project* | Report   Sep. 2019
- Self undertaken project to automate the teaching feedback system for more than 10000 students.
- Used Selenium with python to automate the web browser action and used **Tesseract OCR** and an **CNN** to break the captcha code.
- Achieved **10x** increase in speed(from 10 minutes to less than 1 minute) of the review fill up process. Software used by more 10K+ people.

National Service Scheme Unit Leader | Report   2017-2018
- Did more than **120 hours** of volunteer work for the NSS.
- Nominated as the **camp leader** for my unit for winter Camp
- Elected as the **unit leader** in my second year of service.
- Received the **best volunteer** award for my contributions to the unit.

Tryst with Entrepreneurship | Report   2017-Present
- Created a book called Sharp Cookie with previous year question papers and solutions at IIT Kharagpur and sold more than **5000 copies**.
- Founder of **2vid.tech** which lets creators create short videos from any URL in 2 minutes.

Co-curriculars | Report   2017-Present
- Avid consumer of audio-visual podcasts. Running a podcast named **'Aur Bhai'** on youtube.
- Huge Martial Arts fan with some experience in **Boxing**. Always up for a sparring session.