



# Abhik Banerjee

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Kadma, Jamshedpur, Jharkhand, India., 831005, Jamshedpur, India

## ● WORK EXPERIENCE

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05/07/2021 – 15/09/2021

**OPEN SOURCE DEVELOPER** – SUMMER OF BITCOIN 2021 (BY CHAINCODE LABS)

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Worked on Lightning Network (Layer 2 scaling for Bitcoin) implementation in Rust (rust-lightning) by integrating Multi-hop Route Hints received from Lightning Invoice. Also worked on Route Rebalancing of a network of nodes in Lightning Network.

15/05/2021 – 15/08/2021

**BLOCKCHAIN RESEARCH AND DEVELOPMENT INTERN** – VIDEOWIKI

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Worked on integration of Ocean Protocol on their video conferencing solution built using Big Blue Button. I was part of the team working on implementing casting functionality and integrating Ocean Protocol for paid events organized from the platform.

10/04/2020 – 10/06/2020

**BACKEND DEVELOPMENT INTERN** – TEAM COGNITO

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Was part of a team responsible for development of code for the application backend which was hosted on Google Cloud Platform. Architected the solution and Deployed a secure and compliant cloud infrastructure for the project.

10/06/2019 – 10/09/2019

**GOOGLE CLOUD CONSULTANT** – AVOWS

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Freelancing consultant. Helped in deploying highly scalable cloud solutions. Architected robust service adhering to client specifications for the project I was involved in using Google Cloud Platform

21/05/2021 – CURRENT

**SECRETARY** – IEEE STUDENT BRANCH NETAJI SUBHASH ENGINEERING COLLEGE (STB15115)

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As Secretary, I worked as a liaison between the Student Branch and the IEEE Student Branch Chapter. I also helped in student recruitment drives and convened meetings for discussing the monthly activities.

01/01/2021 – CURRENT

**CHAIR** – IEEE COMPUTER SOCIETY STUDENT BRANCH CHAPTER (SBC15115)

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Revived the IEEE Computer Society Student Branch Chapter of Netaji Subhash Engineering College. supervised monthly activities like webinars and student activities and helped in student recruitment.

## ● EDUCATION AND TRAINING

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01/08/2017 – 15/07/2021

**BACHELOR OF TECHNOLOGY** – Maulana Abul Kalam Azad University of Technology

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<https://makautwb.ac.in/>

## ● LANGUAGE SKILLS

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**Mother tongue(s):** BENGALI

**Other language(s):**

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C2	C1	C1	C2	C2
<b>HINDI</b>	C1	C1	B1	C1	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

## ● DIGITAL SKILLS

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### Programming

JavaScript | Solidity | Go | Python | C | Rust

### Full Stack Web Development

ReactJS | NodeJs | MongoDB, MySQL | Heroku | Firebase | Git

### Cloud

GOOGLE CLOUD | Alibaba Cloud | Amazon Web Services | Docker | Shell Script (Bash)

### Machine Learning

Intel OpenVino Toolkit | Pytorch | Scikit Learn | Pytorch Lightning | Keras/Tensorflow

### Blockchain

Hyperledger Fabric | Ocean Protocol | Lightning Network | Ethereum

## ● PUBLICATIONS

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**(Patent) METHOD AND SYSTEM FOR IMPEMETNING A SECURE BLOCKCHAIN FRAMEWORK IN AN IOT ENVIRONMENT 202131034673**

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2021  
Indian Patent Registry Application Number - 202131034673

**(Research Copyright) Blockchain-based Edge Computing for Behavioral Analytics for Industry 4.0**

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2021  
Diary Number - L-99088/2021

**(Patent) Design of ID-Based and Attribute-based Cryptography for Implementation of Online Voting Prototype using Blockchain.**

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2021  
Indian Patent Registry Application Number - 202031041101

A. Banerjee, S. Mondal, A. Deb and S. Ghosh, "Decentralized Policy Feedback System for Privacy and Governance using Blockchain and Sentiment Analysis for Smart City Applications," 2020 International Conference on Computer Science, Engineering and Applications (ICCSEA), 2020, pp. 1-6, doi: 10.1109/ICCSEA49143.2020.9132877

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[10.1109/ICCSEA49143.2020.9132877](https://doi.org/10.1109/ICCSEA49143.2020.9132877) – 2020

S. Bose, C. Das, A. Banerjee, M. Chattopadhyay and S. Chattopadhyay, "An Ensemble Filtering and Supervised Clustering based Informative Gene Selection Algorithm in Microarray Gene Expression Data," 2020 4th International Conference on Computational Intelligence and Networks (CINE), 2020, pp. 1-7, doi: 10.1109/CINE48825.2020.234391.

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[10.1109/CINE48825.2020.234391](https://doi.org/10.1109/CINE48825.2020.234391) – 2020

Das C., Bose S., Banerjee A., Dutta S., Ghosh K., Chattopadhyay M. (2020) Comparative Performance Analysis of Different Measures to Select Disease Related Informative Genes from Microarray Gene Expression Data. In: Dawn S., Balas V., Esposito A., Gope S. (eds) Intelligent Techniques and Applications in Science and Technology. ICIMSAT 2019. Learning and Analytics in Intelligent Systems, vol 12. Springer, Cham. [https://doi.org/10.1007/978-3-030-42363-6\\_105](https://doi.org/10.1007/978-3-030-42363-6_105)

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[10.1007/978-3-030-42363-6\\_105](https://doi.org/10.1007/978-3-030-42363-6_105) – 2020

Das C. et al. (2020) Impact of Partition Based Clustering Algorithms to Cluster Samples in Microarray Gene Expression Data. In: Dawn S., Balas V., Esposito A., Gope S. (eds) Intelligent Techniques and Applications in Science and Technology. ICIMSAT 2019. Learning and Analytics in Intelligent Systems, vol 12. Springer, Cham. [https://doi.org/10.1007/978-3-030-42363-6\\_77](https://doi.org/10.1007/978-3-030-42363-6_77)

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[10.1007/978-3-030-42363-6\\_77](https://doi.org/10.1007/978-3-030-42363-6_77) – 2020

## ● HONOURS AND AWARDS

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2021

**EthOdessey Hackathon Winners in Chainlink category**

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Was part of the winning team in EthOdessey Hackathon organized by EthIndia in 2021 in the Chainlink Category for the project NFT Aim Lab.

<https://devfolio.co/submissions/nft-aim-lab-0399>

10/07/2020

**Intel Edge AI for IoT Developer Scholarship – Udacity**

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Completed the Nanodegree Program received via Scholarship in the first cohort offered to the same by Intel through Udacity.

<https://graduation.udacity.com/confirm/4D5CTKLZ>

2019

**Best Paper of the Session Award at International Conference on Innovation in Modern Science and Technology**

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Awarded for the conference paper:

**Das C., Bose S., Banerjee A., Dutta S., Ghosh K., Chattopadhyay M. (2020) Comparative Performance Analysis of Different Measures to Select Disease Related Informative Genes from Microarray Gene Expression Data. In: Dawn S., Balas V., Esposito A., Gope S. (eds) Intelligent Techniques and Applications in Science and Technology. ICIMSAT 2019. Learning and Analytics in Intelligent Systems, vol 12. Springer, Cham. [https://doi.org/10.1007/978-3-030-42363-6\\_105](https://doi.org/10.1007/978-3-030-42363-6_105)**

2018

**Top 5% Scorer**

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Scored in the Top 5% of the NPTEL NOC titled "Problem Solving through Programming in C" taken by Prof. Anupam Basu (MOOC).