

DIPANKAR SARKAR

Technology leader & Entrepreneur

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EXPERIENCE

Co-Founder

Boom Protocol

Dec 2021 – September 2022 UK

- We were building a multi-chain API to bring Web2 and mobile applications on-chain.
- We developed an MPC wallet along with a high-scale cloud infrastructure.
- Got commitments of over 2.5M\$ from investors pre-product.
- Had Lois in place from publicly listed companies and large startups.

Machine Learning Consultant

Hike

Sept 2019 – Nov 2021 Gurgaon, India

- Filed over 60+ patents and published papers in renowned ML conferences.
- Worked on the Hikemoji Avatar, especially on Computer Vision models to match components to facial attributes.
- Led the team working on the ML side of the vernacular sticker keyboard and successfully rolled out personalisation.
- Led the team working on Vibe ML, hit all KPIs for the matchmaking and built a sophisticated model for detecting malicious reporting.

Principal Engineering Consultant

Nykaa

Jan 2017 – Aug 2021 Gurgaon, India

- Built two core revenue driver platforms with the Nykaa Ad Platform and Explore (Social commerce). Flexible architecture allowed us to build the affiliate and influencer network easily.
- Worked on data engineering, designing the real-time ingestion framework using AWS Lambda and more. (All system-wide consumer events)
- Design and architecture of the Cart service (in-memory SQL-based, highly scalable) and API gateway (Kong based).

PUBLICATIONS

Books

- D. Sarkar, *Nginx web server implementation cookbook*. Packt Publishing, 2011.

Publications

- D. Sarkar, A. Narang, and S. Rai, "Fed-focal loss for imbalanced data classification in federated learning," in *Workshop on Federated Learning for Data Privacy and Confidentiality in Conjunction with IJCAI 2020*, 2020.
- D. Sarkar, S. Rai, and A. Narang, "Catfedavg: Optimising communication efficiency and classification accuracy in federated learning," in *arXiv preprint arXiv:2011.07229*, 2020.

LIFE PHILOSOPHY

"Who dares wins."

MOST PROUD OF



Building business

Selling+building hard technology. While integrating it into end customers



Learning fast

Production experience of every major technology stack as an engineer and leader



Nykaa's Growth

from a vertical e-commerce to becoming a social commerce listed company



Early social @Kwippy

Founding one of the earlier twitter competitors out of India in 2007

STRENGTHS

Systems thinking

Business-first

Motivator & Leader

Blockchain

Web-scale architecture

AI ML

Data engineering

Research

EDUCATION

M.S. in Computer Science

Arizona State University

Sept 2020 – June 2022

B.Tech. in Computer Science

Indian Institute of Technology, Delhi

Sept 2003 – June 2007

TECHNOLOGIES

Python

Ruby

PHP

MySQL

Postgres

Snowflake

BQ

Redshift

AWS

Solidity

Rust

tensorflow