Dipankar Sarkar

http://dipankar.name/



🄰 @dipankarsarkar

in dipankarsarkar



Passionate researcher in the field of Machine learning, Cryptography and Distributed Systems. An experienced entrepreneur who has previously raised money from venture capitalists with a deep understanding of various internet verticals. Author of a book on Nginx, the world's most popular web server. Published a paper on Federated Learning at IJCAI in 2020 and assisted with filing over 60 provisional patents in augmented reality, virtual reality, image processing, messaging and cryptography.

Education

2020 – 2022 M.Sc. Arizona State University in Computer Science. Specialisation in Cyber-Security (GPA: 3.96/4.0)

B.Tech Indian Institute of Technology in Computer Science.

Project: Detecting unusual human activity using video. (GPA: 7.5/10)

Research Publications

Conference Proceedings

- N. Kumar, S. Goel, A. Narang, et al., "One shot audio to animated video generation," arXiv, 2021. ODOI: 10.48550/ARXIV.2102.09737.
- **D. Sarkar** and M. Gupta, "Curriculum generation using autoencoder based continuous optimization," arXiv, 2021. O DOI: 10.48550/ARXIV.2106.08569.
- **D. Sarkar**, A. Narang, and S. Rai, "Fed-focal loss for imbalanced data classification in federated learning," Accepted for the Workshop on Federated Learning for Data Privacy and Confidentiality in Conjunction with IJCAI 2020 (FL-IJCAI'20), 2020. ODI: 10.48550/ARXIV.2011.06283.
- **D. Sarkar**, S. Rai, and A. Narang, "Catfedavg: Optimising communication-efficiency and classification accuracy in federated learning," arXiv, 2020. ODI: 10.48550/ARXIV.2011.07229.

Journal Articles

D. Sarkar, "Muzzled: A graphical theme builder for mozilla," *Linux Gazette*, vol. 119, 2005.

Books and Chapters

D. Sarkar, Nginx 1 Web Server Implementation Cookbook. Packt Publishing, 2011.

Employment History

2021 – 2022 **Co-Founder** Boom Labs, a decentralised marketing protocol built on the blockchain.

2019 – 2021 Machine Learning Lead Hike Limited, India's largest messenger and now casual gaming

2017 – 2021 Principal architect Nykaa (Publicly Listed), India's largest lifestyle ecommerce.

2017 – 2019 Co-Founder ExpressMOJO, A logistic classifieds and freight matching service.

2013 – 2016 Co-Founder Octo.ai, Raised \$250K for building the future of marketing data platforms.

Miscellaneous Experience

Certification

2018 **Graduate Certificate, Strategic Studies**. Awarded by The Takshashila Institute.

Awards and Achievements

2021 **Eta Kappa Nu - Engineering honor society of IEEE**, for excellent academic performance.

Westerwelle Young Founder, went to represent my logistics startup ExpressMOJO in Germany.

Top 100 ICSE students, Among the top students in Kolkata.

Skills

Languages Strong reading, writing and speaking competency in English. Reading and speaking competency in Hindi and Bengali.

Coding Pytho, Ruby, Rust, Java, PHP, R, SQL, XML/XSL, LATEX, ...

Databases Mysql, Postgresql, Hsql, sqlite.

Other technologies HTML, css, JavaScript, Nginx, Apache Web Server, Tomcat Web Server.

Startups, academic research, training, consulting, LTEX typesetting and publishing.

References

Available on Request

Misc.