

Dr. Jaideep Ganguly, Sc.D.(MIT)

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## Summary

- 9 years of experience at Amazon.
- Innovative, hands-on, have the ability to dive deep.
- Results-oriented visionary with a distinguished track record in software engineering and machine learning.
- Strong track record of leading design and implementation of massively scalable and reliable software services.
- Ability to hire and retain world class talent across distributed dev centers.

## Technical Skills

AWS, Dynamo DB, JVM, Java, Kotlin, Scala, Python, SciKit-Learn, TensorFlow, Keras, Deep Learning, Reinforced Learning, RDBMS, NoSQL, jQuery, Bootstrap.

### Director of Software Engineering, Amazon, Hyderabad

Jun-2017 to Nov-2019

Leader of the FinTech team at Amazon which is responsible for computing payables to Amazon business partners worldwide which amounts to well over a hundred billion dollars. In depth experience in delivering software using Java, Kotlin, Scala and through large scale asynchronous computing. Deep expertise in building Machine Learning / Deep Learning models to detect fraud and outliers as well as detect patterns to derive tangible business insights.

### Director of Software Engineering, Amazon, Hyderabad

Sep-2010 to May-2017

Responsible for complete [engineering](#) of a software stack that automatically handles service requests from over 3 million sellers on Amazon Marketplace without any human intervention. Enabled automation of millions marketplace contacts in 2016. Conceived and developed RacerX, a foundation for automation. Presented our work at [Machine Learning at Amazon Berlin workshop in Sep 2016](#). Earlier, responsible for Amazon Webstore engineering and large seller business which included Marks & Spencer. Under my leadership, M&S internet sales grew by 23% YoY to well over a billion dollars.

### Director of Software Engineering, Microsoft, Hyderabad

Jul-2006 to Aug-2010

Shipped 2 versions of Windows Server including Remote Desktop Services Gateway, a core component in Windows Server. The Gateway tunnels the Remote Desktop Protocol session using a HTTPS channel for increasing security of RDP Services by encapsulating the session with Transport Layer Security (TLS). My team was the winner of Microsoft's coveted Worldwide [Engineering Excellence Award for Trustworthy Computing](#). Enabled integration with System Center Virtual Machine Manager (SCVMM) for Dynamic Placement of Virtual Machines. Recipient of Microsoft Management Excellence Award.

## Education

Doctor of Science, from [Massachusetts Institute of Technology](#).

Dissertation on *formalisation, design and implementation of a knowledge based system for qualitative reasoning*.

Master of Science, MIT.

Bachelor of Technology with honors from [Indian Institute of Technology, Kharagpur](#).

Recipient of [Sir Dorabji Tata](#) award for academic excellence.

## Recent Publications

1. [A Brief History of Machine Learning](#)
2. [Functional Programming – Design through Functional Composition & Monads](#)
3. [Machine Learning and the Grand Challenge](#)
4. [Functional Programming - Design through Functional Composition and Monads](#)
5. [The Perils of Concurrency](#)

## Patents

1. Centralised management tool for remote presentation session server farms [US 8495193 B2](#)
2. Adaptable License Platform for Remote Sessions [US 20120079393 A1](#)