

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

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Summary

As technology increasingly drives business outcomes, my endeavor is to equip the next generation of tech and business professionals with the tools they need to harness technological advancements and achieve transformative success.

I am an **innovative** executive with over 30 years of real world experience in **AI** and **AWS** hosted **software engineering**, specializing in **Deep Learning**, **Large Language Models**, and high performance software development using the **Rust** language.

Experience

I have led large engineering teams at **Amazon** for 9.5 years, culminating in the role of Director of Software Engineering. Prior to that I was Director of Engineering at **Microsoft** where I led my team to ship two versions of Windows Server.

Education

Doctor of Science, [Massachusetts Institute of Technology](#), 1989. Dissertation on formalization, design, and implementation of a knowledge-based system for qualitative reasoning.

Master of Science, [Massachusetts Institute of Technology](#), 1986.

Bachelor of Technology (Honors), [Indian Institute of Technology, Kharagpur](#), 1984. Awarded the “Sir Dorabji Tata Award” for outstanding academic performance during undergraduate studies.

Articles & Books

- [A Brief History of Machine Learning](#)
- [Machine Learning and the Grand Challenge](#)
- [Moving to the Rust Programming Language](#)
- [Kotlin Cookbook](#)
- [Functional Programming – Design through Functional Composition & Monads](#)

Activities

- [AIDays Keynote: AI - Past, Present & Future, March 31, 2024, Hyderabad.](#)
- Distinguished Lecture on “Recurrent Neural Networks in Sequence Learning for Dialog Systems”, November 16th, 2016, IIIT Hyderabad.
- Invited talk titled “Recurrent Neural Networks in Sequence Learning” at Department of Computer Science, Indian Institute of Technology, Kharagpur, Nov 3, 2016.
- Educational Counselor, MIT to interview and identify the truly gifted and brilliant applicants for admission to MIT from India.
- Invited speaker at IET – Institute of Engineering & Technology international conference on Software as a Service, Oct 2008, Bangalore, India.
- Adjunct Professor, Indian Institute of Technology, Kharagpur, Sep 1997 - Jan 1998.
- Invited speaker on “Qualitative Behavior of Engineering Systems from Structural Descriptions”, Knowledge Systems Laboratory, Department of Computer Science, Stanford University, 1989.
- Invited speaker on Expert Systems at Cornell University, 1987.

Hobbies

An avid pianist, enjoy playing [Bollywood melodies and Tagore songs](#).