

Abstract

In this talk I will provide a brief overview of how the academic and industrial research in data science has evolved over the last two decades and its implications on the business side, in particular the centrality accorded by businesses to 'data-driven-decisioning'.

This overview will help you understand and appreciate the need for a framework for developing and deploying data-science driven products. Specifically, we will talk about best practices and challenges at each stage of the data driven product development starting from (a) data gathering, cleaning and normalization, (b) incorporating domain expertise, (c) choice of model, (d) model training and evaluation, (e) design decisions for at-scale deployment, (f) planning for redundancy, (g) continuous monitoring for model deterioration, and (h) logging customer feedback.

With the latest advancements in machine learning methods and the availability of vast amount of data, there has never been a better time to build data science driven products!

Bio:



Dr. Om Deshmukh is the CEO and co-founder of TildeHat: a data-focused start-up. Om has a Ph.D. in Machine Learning from University of Maryland, College Park. Om has 50+ international publications (several best paper awards) and 50+ patents (filed/granted). In 2019, his team at Yodlee was recognized as one of the top 10 data science teams to work at in India. In 2017, he was recognized as one of the top 10 data scientists in India. His team won the Govt of India's National Award for the Best Accessible Technology (2008).

He spent close to a decade in IBM Research and Xerox Research driving various state-of-the-art Machine Learning initiatives for global technical research, technology strategy and start-up partnerships. For more than three years, Om ran the delivery of data-science driven products at Yodlee Infotech. Om started his entrepreneurial journey just about a month ago! Om is a well-known Machine Learning and Data Sciences authority in industry and academia, with several collaborations across IISc / IITs. Om is also an adjunct faculty at the International School of Engineering (INSOFE).

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