

Invited Keynote Lecture



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An Introduction to Data Science in Silicon Valley

Abstract: We present some of the most important problems facing large tech companies such as Facebook, Google, Amazon, and Uber that can be solved with data, analysis, and machine learning. Topics will include comment ranking, recommendation algorithms, and peak detection. If time permits, we will also touch on active areas which overlap with advanced mathematics, such as persistent homology in topological data analysis and the use of sheaves in sensor integration.

Keywords: Data science; Machine learning; Comment ranking; Peak detection.