



## Machine Learning and Big Data Update 2019

### Practical Machine Learning

Welcome again to our Machine Learning and Big Data Update. It is hard to believe that over seven years have now passed since our first presentation to Indiana DAMA. This year, we will do a brief update on the world of Big Data, but we will spend the majority of our time discussing Machine Learning.

Last year we explored Machine Learning itself – what it is, what technology is available, and some of the dramatic and occasionally startling developments that it has produced. This year, we recognize that both Big Data and Machine learning have moved far beyond research and ad hoc analysis and have emerged to become integral parts of production systems. With this, we must now place emphasis on the management and practical usage of these systems. We are going to discuss the complexities of building predictive models, managing the data used to produce them, aspects associated with “allowing the systems to learn”, and lastly gauging their performance in an ever-changing world where behavior and the data that is produced morph over time.

We hope that this session will be informative, thought provoking, and will help you understand how Data Scientists and DevOps work as a team.

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**Michael Covert** is the founder and CEO of Analytics Inside, a company delivering software, services, and training of Big Data and predictive analytics. Mr. Covert has many years of experience in a variety of business and technical roles, including risk management, profitability analysis, financial management, and governance and regulatory processes. He is also an experienced specialist in data management, Big Data, machine learning, and advanced analytics. Mr. Covert is a Cloudera Hadoop Certified Developer. Michael and Victoria are the authors of Learning Cascading by Packt Publishing, a book dedicated to the Cascading Big Data development framework.

**Victoria Loewengart** is the COO of Analytics Inside. She is a scientist and business leader with specific emphasis in Big Data, predictive analytics, Natural Language Processing, and data management. Victoria Loewengart has many of experience in all facets of “cyberspace” development, management, and exploration. She obtained Master Degree in Intelligence Studies from American Military University. Victoria has published numerous articles on topics ranging from text analytics to intelligence analysis and cyber security. Her book “An Introduction to Hacking & Crimeware: A Pocket Guide” was published by IT Governance, UK.