Attend a Data Science Meetup

Intro to Machine Learning Models

Tuesday, July 14, 2020

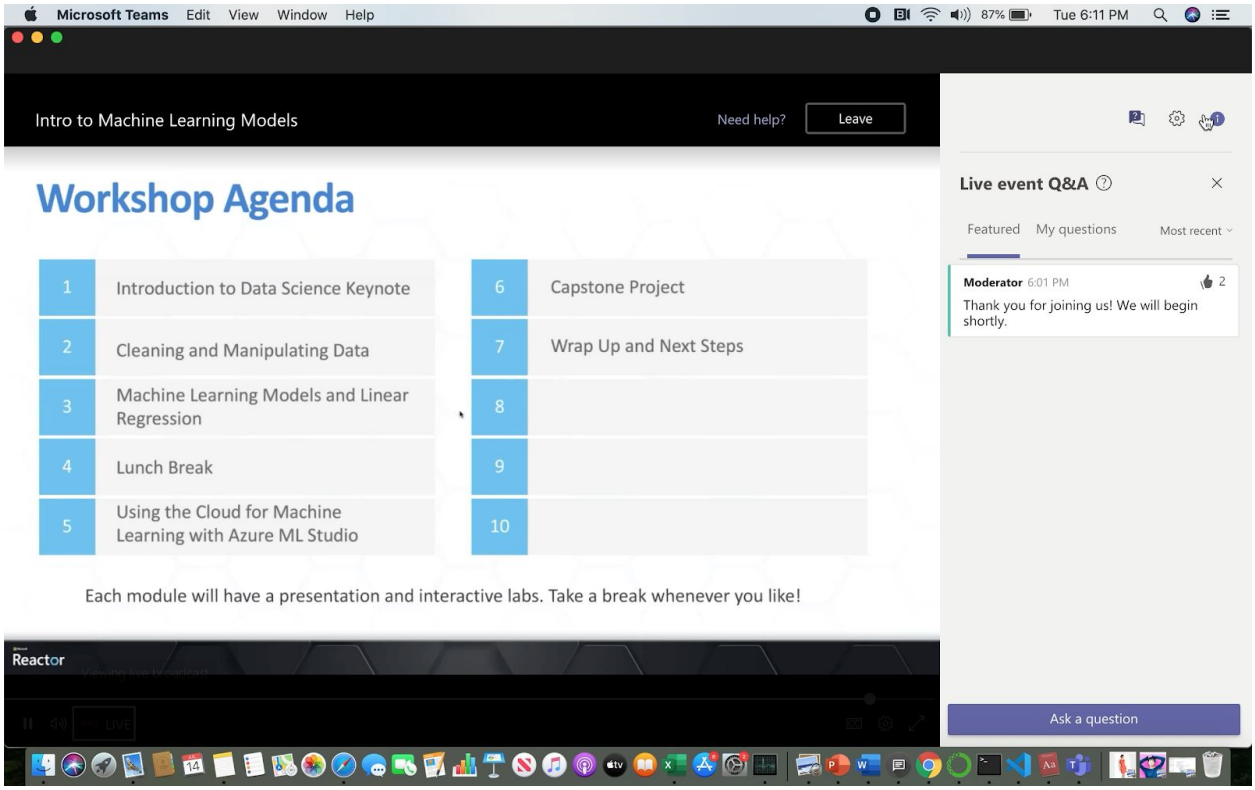
6:00 PM to 8:00 PM EDT

Hosted by Becca K

Details

Every day, new data is created. As data increases in quantity, it becomes more complex and ultimately more difficult to process in fast, meaningful ways. Machine learning to the rescue! Machine learning models can quickly and accurately analyze large datasets. In this workshop, you will get a glimpse into how we can teach machines to analyze complex scenarios at large scale. After cleaning and organizing your data, you will train and test some machine learning models—and even publish your predictions online for others to explore.

Instructor: Brian Sletten
Brian Sletten is a liberal arts-educated software engineer with a focus on forward-leaning technologies. His experience has spanned many industries including retail, banking, online games, defense, finance, hospitality and health care.
He has a B.S. in Computer Science from the College of William and Mary and lives in Auburn, CA. He focuses on web architecture, machine learning, resource-oriented computing, social networking, the Semantic Web, data science, 3D graphics, visualization, scalable systems, security consulting and other technologies of the late 20th and early 21st Centuries.
He is also a rabid reader, devoted foodie and has excellent taste in music. If pressed, he might tell you about his International Pop Recording career.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Workshop Agenda
1 Introduction to Data Science Keynote
2 Cleaning and Manipulating Data
3 Machine Learning Models and Linear Regression
4 Lunch Break
5 Using the Cloud for Machine Learning with Azure ML Studio
6 Capstone Project
7 Wrap Up and Next Steps
8
9
10
Each module will have a presentation and interactive labs. Take a break whenever you like!
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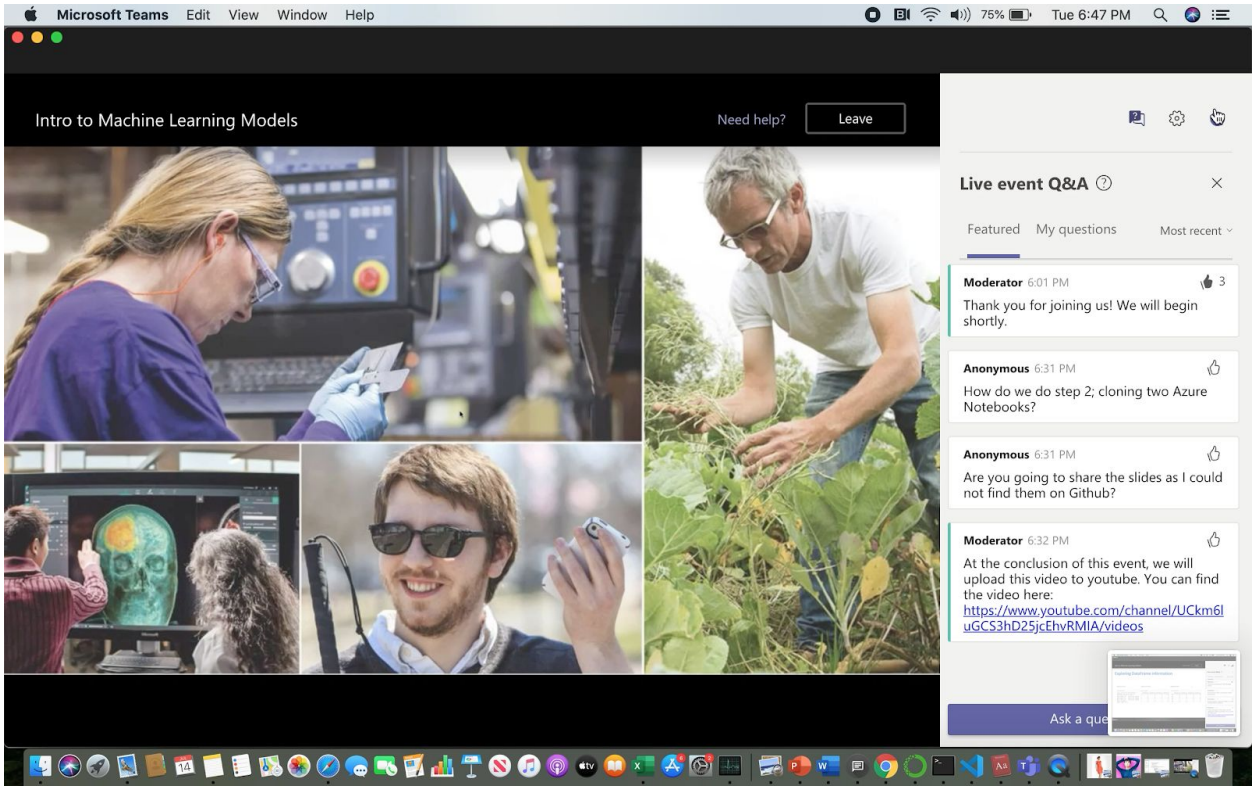
Moderator 6:01 PM
2
Thank you for joining us! We will begin shortly.
Ask a question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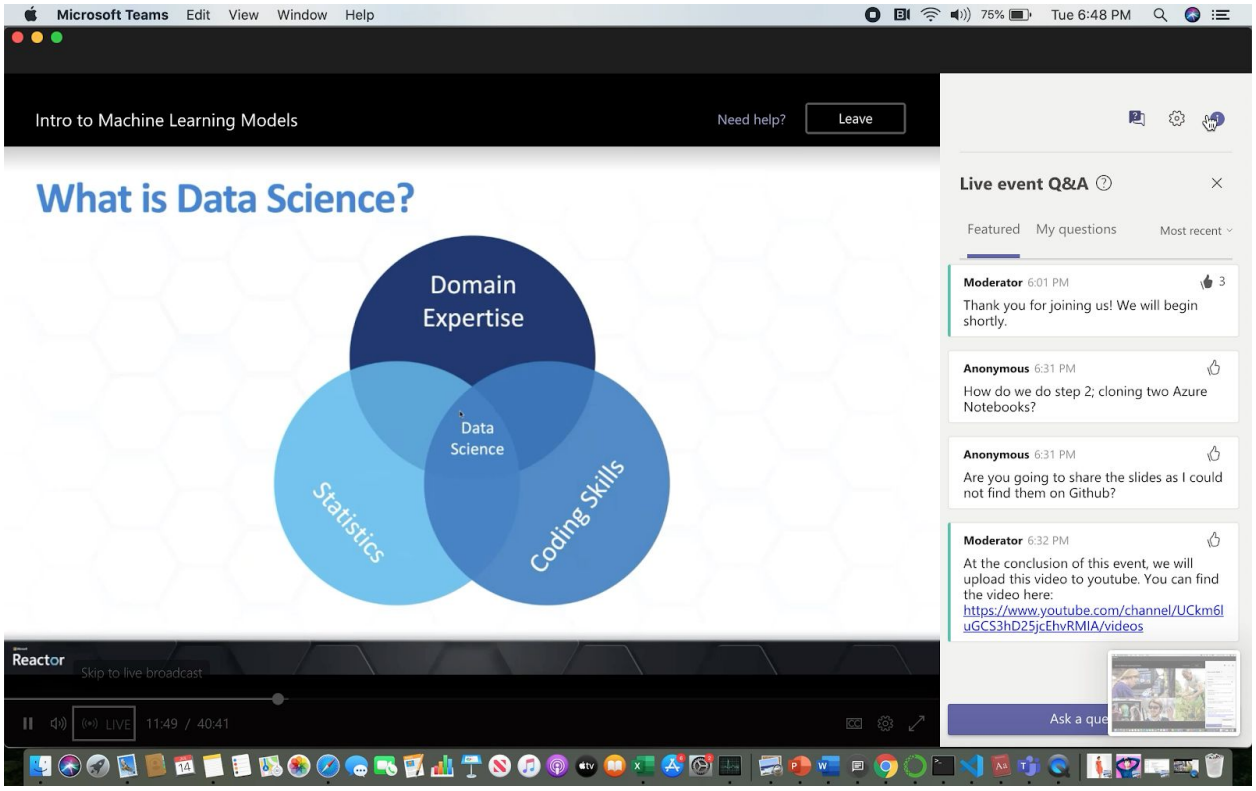
3
Thank you for joining us! We will begin shortly.
Anonymous 6:31 PM
How do we do step 2; cloning two Azure Notebooks?
Anonymous 6:31 PM
Are you going to share the slides as I could not find them on Github?
Moderator 6:32 PM
At the conclusion of this event, we will upload this video to youtube. You can find the video here:
https://www.youtube.com/channel/UCkm6IuGCS3hD25jcEhvRMIA/videos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Statistics
Coding Skills
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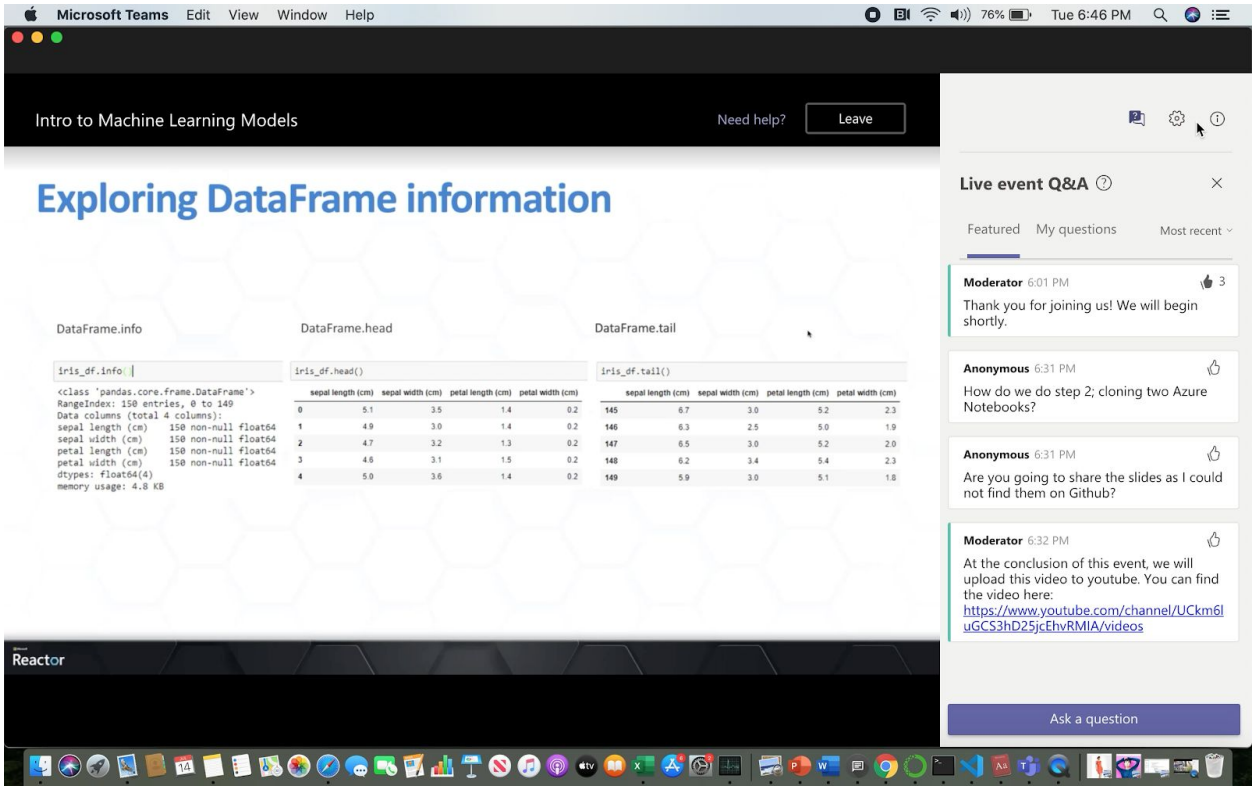
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Exploring DataFrame information
DataFrame.info
DataFrame.head
DataFrame.tail
iris_df.info()
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 150 entries, 0 to 149
Data columns (total 4 columns):
sepal length (cm) 150 non-null float64
sepal width (cm) 150 non-null float64
petal length (cm) 150 non-null float64
petal width (cm) 150 non-null float64
dtypes: float64(4)
memory usage: 4.8 KB
iris_df.head()
sepal length (cm) sepal width (cm) petal length (cm) petal width (cm)
0 5.1 3.5 1.4 0.2
1 4.9 3.0 1.4 0.2
2 4.7 3.2 1.3 0.2
3 4.6 3.1 1.5 0.2
4 5.0 3.6 1.4 0.2
iris_df.tail()
sepal length (cm) sepal width (cm) petal length (cm) petal width (cm)
145 6.7 3.0 5.2 2.3
146 6.3 2.5 5.0 1.9
147 6.5 3.0 5.2 2.0
148 6.2 3.4 5.4 2.3
149 5.9 3.0 5.1 1.8
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