Key Points

Machine Learning is here today

Machine Learning is data driven

Follow the Machine Learning Workflow

Asking the right question

Preparing data Selecting the algorithm Training the model

Asking the right question

Preparing data Selecting the algorithm Training the model

Asking the right question

Preparing data

Selecting the algorithm Training the model

Testing the model

Started with question

Asking the right question

Preparing data Selecting the algorithm Training the model

Testing the model

Started with question

Used requirements and knowledge to transform

Asking the right question

Preparing data Selecting the algorithm Training the model

Testing the model

Started with question

Used requirements and knowledge to transform

Resulted in solution statement

Asking the right question

Preparing data Selecting the algorithm Training the model

Asking the right question

Preparing data Selecting the algorithm Training the model

Testing the model

Retrieved diabetes data

Asking the right question

Preparing data Selecting the algorithm Training the model

Testing the model

Retrieved diabetes data

Cleaned data

Asking the right question

Preparing data Selecting the algorithm Training the model

Testing the model

Retrieved diabetes data

Cleaned data

Molded data

Asking the right question

Preparing data

Selecting the algorithm Training the model

Asking the right question

Preparing data

Selecting the algorithm Training the model

Testing the model

Learning type

Asking the right question

Preparing data

Selecting the algorithm Training the model

Testing the model

Learning type

Result type

Asking the right question

Preparing data

Selecting the algorithm Training the model

Testing the model

Learning type

Result type

Complexity

Asking the right question

Preparing data

Selecting the algorithm Training the model

Testing the model

Learning type

Result type

Complexity

Basic vs. Enhanced

Asking the right question

Preparing data Selecting the algorithm Training the model

Asking the right question

Preparing data

Selecting the algorithm Training the model

Testing the model

Split data - 70% / 30%

Asking the right question

Preparing data

Selecting the algorithm Training the model

Testing the model

Split data - 70% / 30%

Trained with training data

Asking the right question

Preparing data

Selecting the algorithm Training the model

Asking the right question

Preparing data

Selecting the algorithm Training the model

Testing the model

Evaluated prediction

Asking the right question

Preparing data

Selecting the algorithm Training the model

Testing the model

Evaluated prediction

Selected Logistic Regression

Asking the right question

Preparing data Selecting the algorithm Training the model

Testing the model

Evaluated prediction

Selected Logistic Regression

Achieved success

Asking the right question

Preparing data

Selecting the algorithm Training the model

Testing the model

Evaluated prediction

Selected Logistic Regression

Achieved success

<u>Used Cross Validation version for better general performance</u>

Pluralsight Courses

Python Fundamentals

Understanding Machine Learning with R



Online Resources

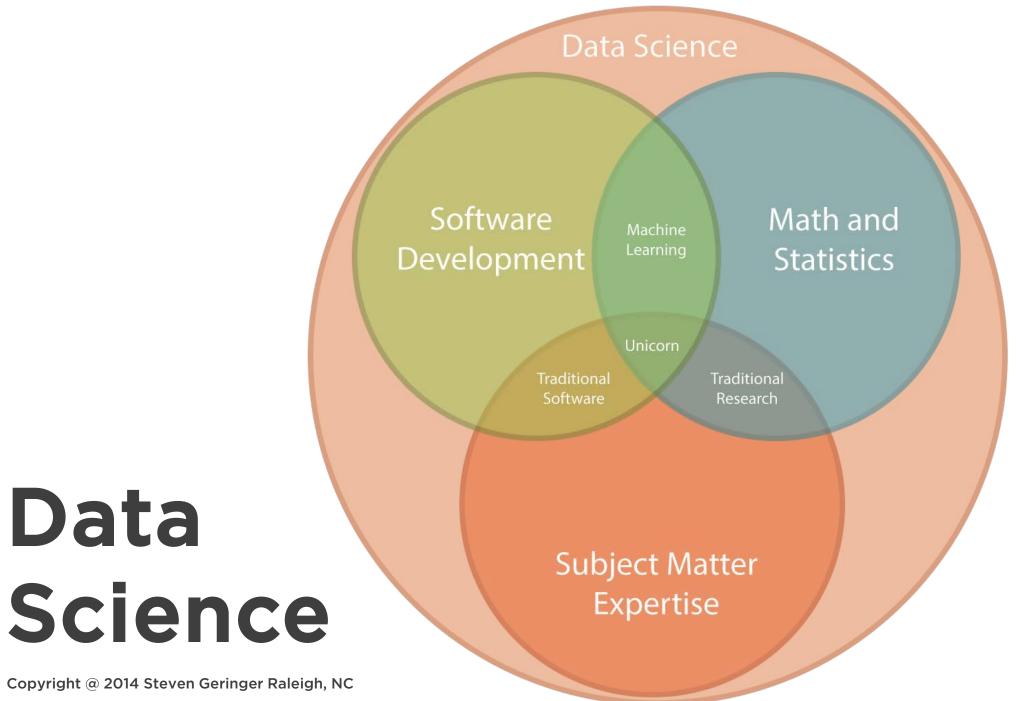
UCI Machine Learning Repository

archive.ics.uci.edu/ml

Jupyter Notebook

https://jupyter.org/







Data







"Live as if you were to die tomorrow.

Learn as if you will live forever."

Mahatma Gandhi

