BEGINNER'S DATA SCIENCE LEARNING PLAN FOR 2017
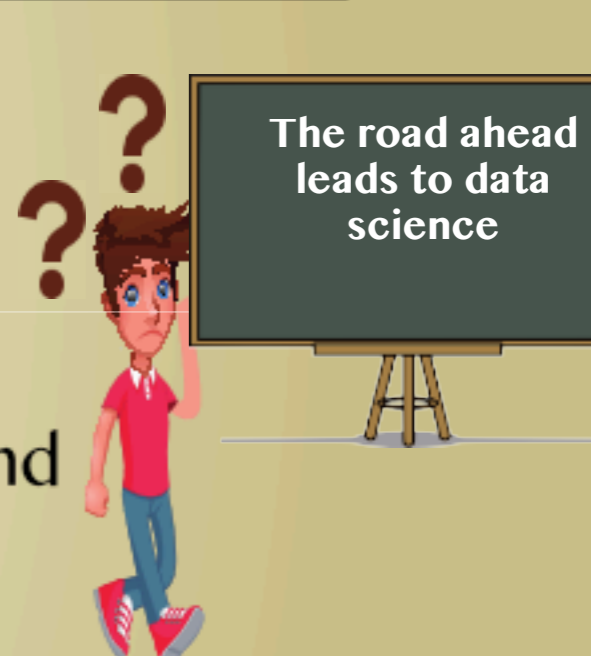
Plan to learn data science in a year
First introspect why do you want to become a data scientist.

Getting started & testing the waters

January

- Find out what is data science.
- Skills required to become a data scientist.
- Attend meetups.
- Interact with experienced people to understand the life of a data scientist

The road ahead leads to data science

Basics of Mathematics & Statistics

Feb – March

- Descriptive Statistics Course by Udacity
- Introduction to Probability – The science of uncertainty Course by edX
- Inferential Statistics Course by Udacity
- Linear Algebra Course by Khan Academy
- Structured Thinking blogs by Analytics Vidhya

1,2,4,4,6,8,4
Mode=4

Choose your tool – R or Python

Learn R

- Interactive Intro to R programming language by Data Camp
- Exploratory Data Analysis by Coursera
- R from scratch and Data in R Guides by Analytics Vidhya
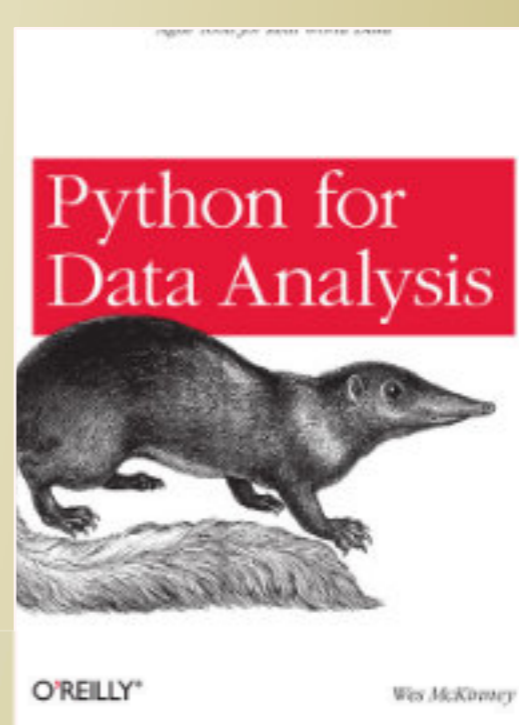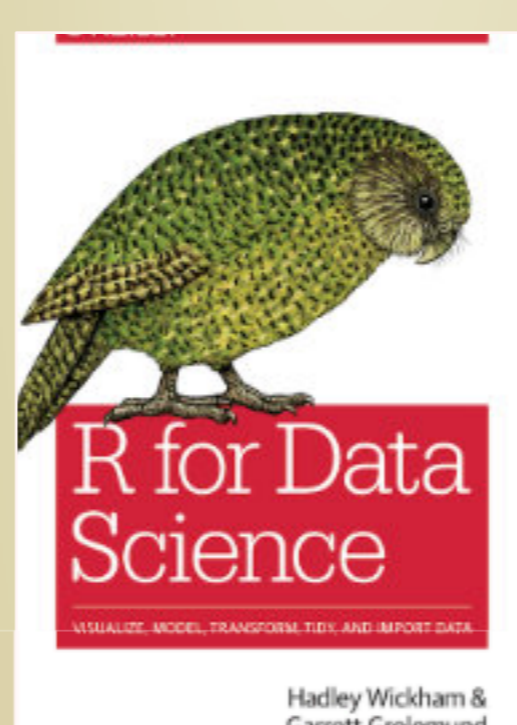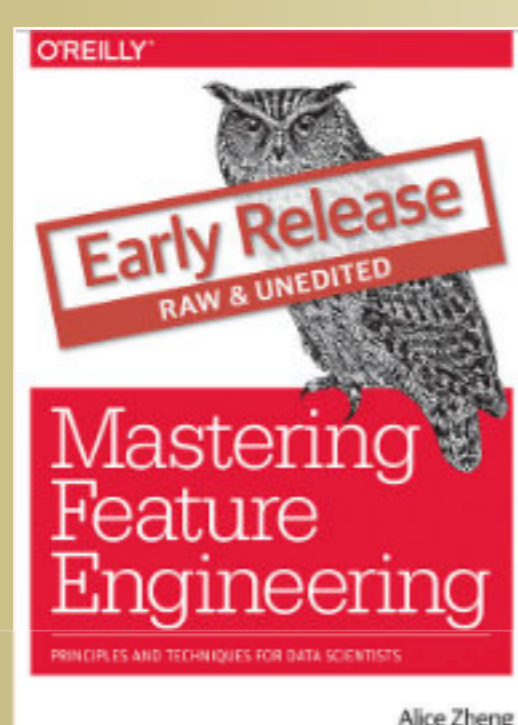- Follow R-bloggers

Learn Python

- Intro to Python for Data Science Course by Datacamp
- Intro to Data Analysis Course by Udacity
- Python for Data Science Guide, Data Exploration & Visualization in Python Guide by Analytics Vidhya.
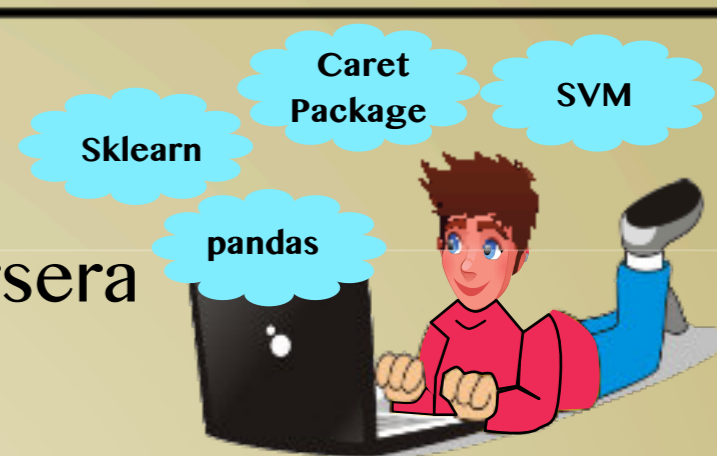
April – May

Feature Selection:

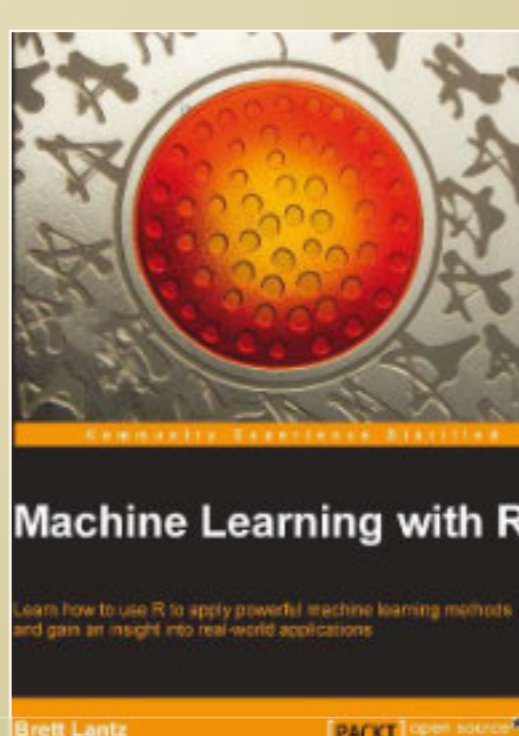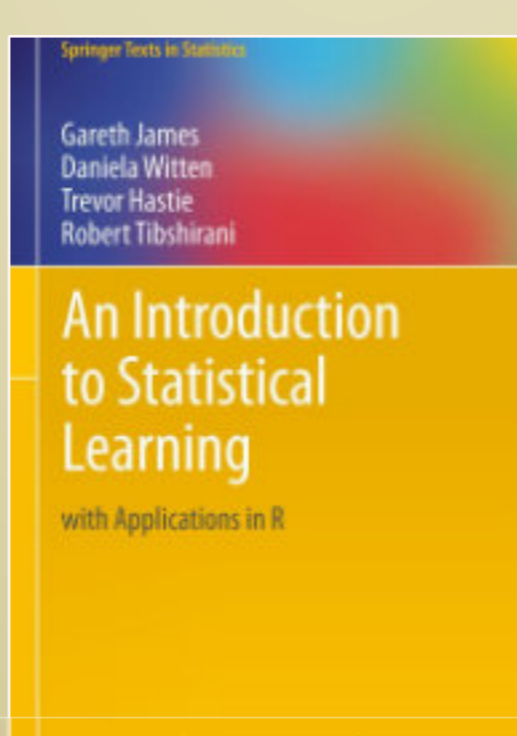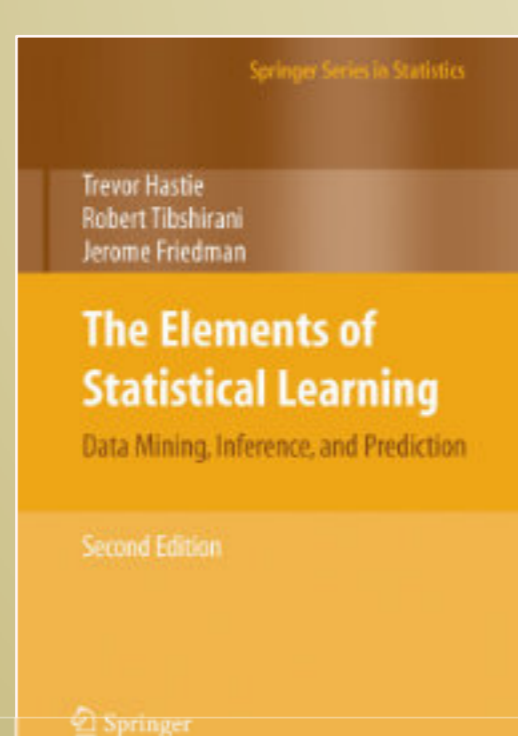- Data Exploration & Feature Selection Guide from Analytics Vidhya

Book

O'REILLY
Early Release
RAW & UNEDITED
Mastering Feature Engineering
Alice Zheng

R for Data Science
IMPORT, TIDY, TRANSFORM, VISUALIZE, AND MODEL DATA
Hadley Wickham & Garrett Grolemund

Python for Data Analysis
Wes McKinney
O'REILLY

Basic & advanced machine learning tools

June – Aug

- Machine Learning course by Coursera
- Machine Learning Classification by Coursera
- Intro to Machine Learning by Udacity
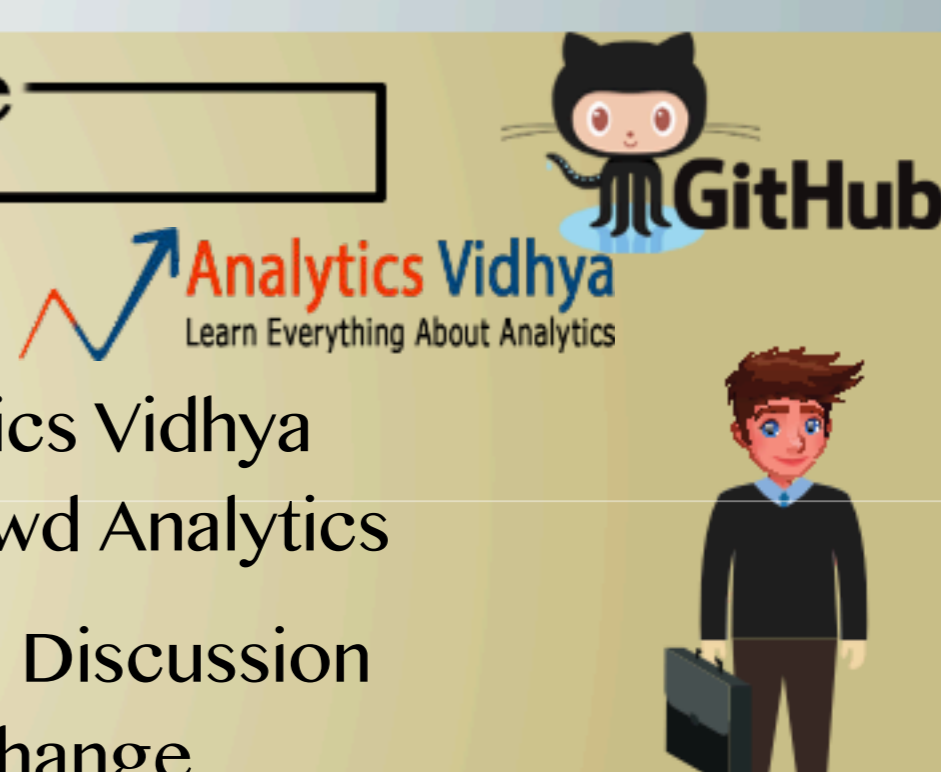- Blogs & Guide by Analytics Vidhya, machine learning mastery

Sklearn Caret Package SVM pandas

Book

The Elements of Statistical Learning
Data Mining, Inference, and Prediction
Second Edition
Trevor Hastie
Robert Tibshirani
Jerome Friedman
Springer

An Introduction to Statistical Learning
with Applications in R
Gareth James
Daniela Witten
Trevor Hastie
Robert Tibshirani
Springer

Machine Learning with R
PACKT

Building Your Profile

Sept – Oct

- Github Profile Building
- Practice via Competition on - Analytics Vidhya Datahack, Kaggle Competition, Crowd Analytics
- Discussion Forum – Analytics Vidhya Discussion portal, Kaggle Discussion, Stack Exchange

Analytics Vidhya
Learn Everything About Analytics
GitHub

Apply for Jobs & Internships

Nov- Dec

Identify the right jobs for you and apply here.
- Analytics Vidhya Job Portal
- Datajobs
- Kaggle Job Portal
- Internshala

Start your data science Career
All the Best!