TRANSITIONER'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

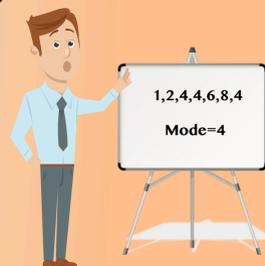The road ahead leads to data science

- Find out what is data science.
- Skills required to become a data scientist.
- Attend meetups.

Jan – March

Basics of Mathematics & Statistics

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

- 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

Choose the 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
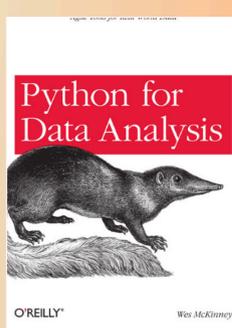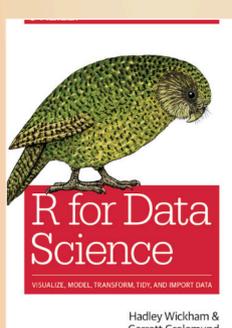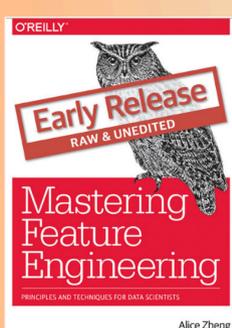- Follow R-bloggers

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
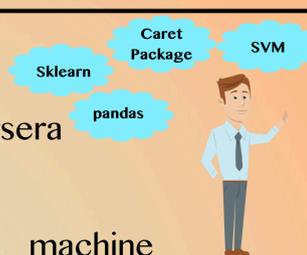
Feature Selection:

- Data Exploration & Feature Selection Guide from Analytics Vidhya
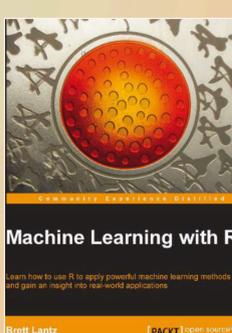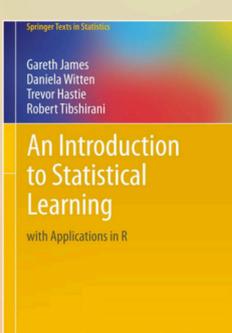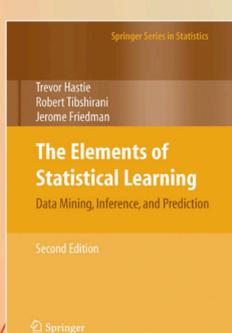
March – April

Book

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

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

Python for Data Analysis
Wes McKinney
O'REILLY

Basic & advanced machine learning tools

Caret Package   SVM
Sklearn
pandas

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

May – July

Book

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

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

Machine Learning with R
PACKT

Building Your Profile

Analytics Vidhya
Learn Everything About Analytics
GitHub

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

Aug – Oct

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!

For More Amazing Infographics , Visit

http://www.analyticsvidhya.com