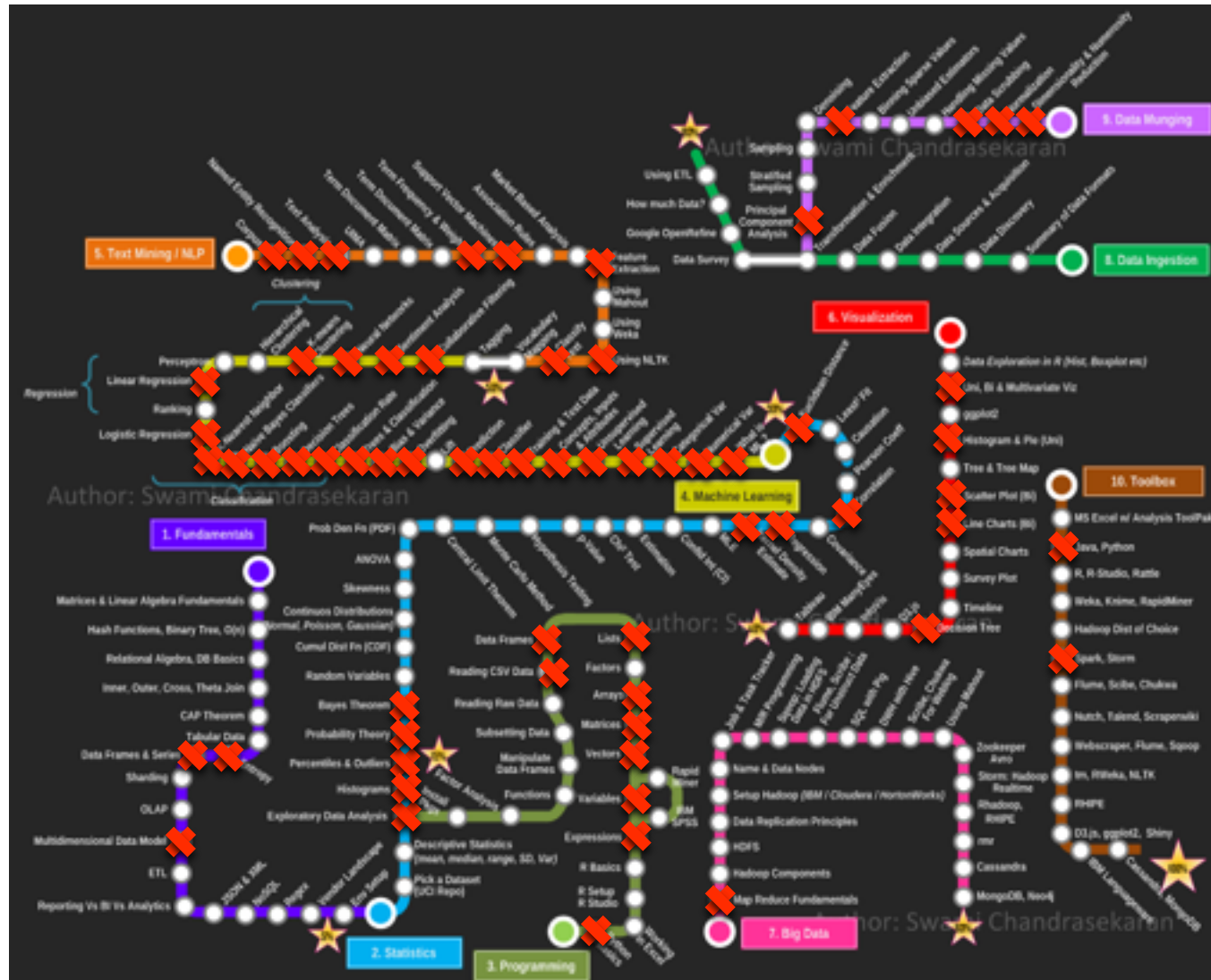


INTRO TO DATA SCIENCE RIEVIEW



WHAT YOU HAVE DONE - 1

Exploratory Data Analysis

Python

Numpy

Pandas

Matplotlib

Gradient Descent

Normal Equations

Generalized Linear Models

Linear Models for Linear Regression

Linear Models for Non-linear Problems

Logistic Regression, including Multi-class Classification

Principal Components Analysis

K-means Clustering

Naive Bayes Models

-Bernoulli

-Multinomial

-Gaussian

Headline Testing

Natural Language Processing

Count Vectorization

TF-IDF

Cosine Similarity

Latent Dirichlet Allocation - Topic Modeling

Recommendation Systems

Collaborative Filtering

K-nearest Neighbors

Support Vector Machines

-Non-linear and linear

-Regression and classification

Ensemble Methods

-Averaging

-Boosting

Decision Trees

MapReduce and Spark

Time Series Analysis

Neural Networks

WHAT YOU HAVE DONE 2

Feature selection

Feature scaling

Polynomial Features

Validation and Cross-validation

Regularization

Bias

Variance

Mean Squared Error

Accuracy

Precision

Recall

F1-Score

ROC

AUC

Gaussian Distribution

Beta Distribution

Bernoulli Trial

Multinomial Distribution

Dirichlet Distribution

Grid Search

Random Grid Search

DATASETS

Chicago House Prices

IMDB

Africa Soil

Grateful Dead

Baseball Hitters

Challenger Disaster

Iris Dataset

20 News groups

UN Countries

Citibike Data

MNIST

Movie Critics

Tweet Sentiments

Airlines Dataset

Book-Crossing Dataset

Engine Misfiring Dataset

Libor Dataset

Ebola Dataset

WHAT HAVEN'T WE TOUCHED ON?

Bayesian Regression
Bayesian Classification (Logistic Regression)
Discriminant Functions - Fisher's Linear Discriminant

Gaussian Processes
Expectation Maximization
Mixture of Gaussians
Graphical Models & Approximate Inference
Sampling Methods
Probabilistic PCA
Factor Analysis
Independent Component Analysis
Bayesian PCA

Advanced Optimization Methods - Conjugate Gradients
Markov Modeling
Hidden Markov Modeling

Only touched on Neural Networks
Didn't investigate Convolutional Neural Networks,
Restricted Boltzmann Machines, Deep Belief Networks,
Recurrent Networks, Generative Models
Radial Basis Function Networks
Bayesian Networks
Auto-associative Neural Networks and Non-linear PCA

...AND FINALLY

On behalf of myself, Susan and Chris thank you

We wish you the best of luck in any future Data Science Endeavors

Please feel free to send me a Linkedin invite