1. Clarify which LDA we are going to discuss. 1-2 Sentence abt the LDA we r not going to talk
2. Introduce Topic modeling: a. What is Topic modeling? (which covers LDA is one of its algorithms.) What group of data mining/machine learning category it falls into.

b. List one or two Topic modeling’s usages and related project examples to give an idea of what LDA will be used for. c. Characteristics of this category/ algorithm ()

c1. List of algos used in topic modeling(LDA, ...)

1. Introduce LDA specifically: d. background, primary usage (examples) used at first

e. formula, Statistics (Decompose the machine learning process)

f. Requirement of data in terms of data type, data structure.(structured or unstructured data)/ what kind data/dataset it can process(examples)

g. Pros & Cons (Lit review)

h. any improvement after invention?

i. Extended Purpose (examples)

j. Reality of using this algorithms. (Like what big companies, projects are implementing LDA)

1. Problem statement: Background of the problem

The dataset we are going to analyze( A brief introduction)

Go through column descriptions

Visualize data (descriptive analysis)

Goal of using LDA, Why works on this dataset/problem

Outcome we will get/ we expect.

1. The choice of tool/tools: List of tools for analytics & data visualizations

tools(Python & R (maby hadoop)+ the specifics libraries; maybe mahout)

Talk a little bit abt Libraries (what algo it covers, who is using this)

1. Implementation/ demo Roadmap of implementation. data pipeline

Demo Code

Result (Performance in terms of processing speed of difference tools depends on the data size we got)

Data visualization. dashboard

Evaluate how good the model is (by comparing with another algo with the same function)

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