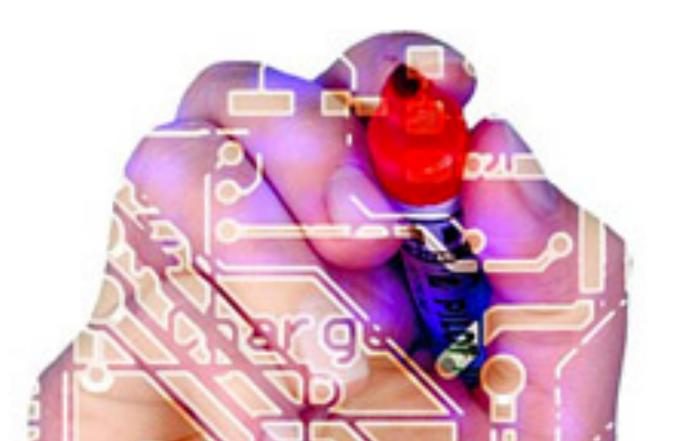
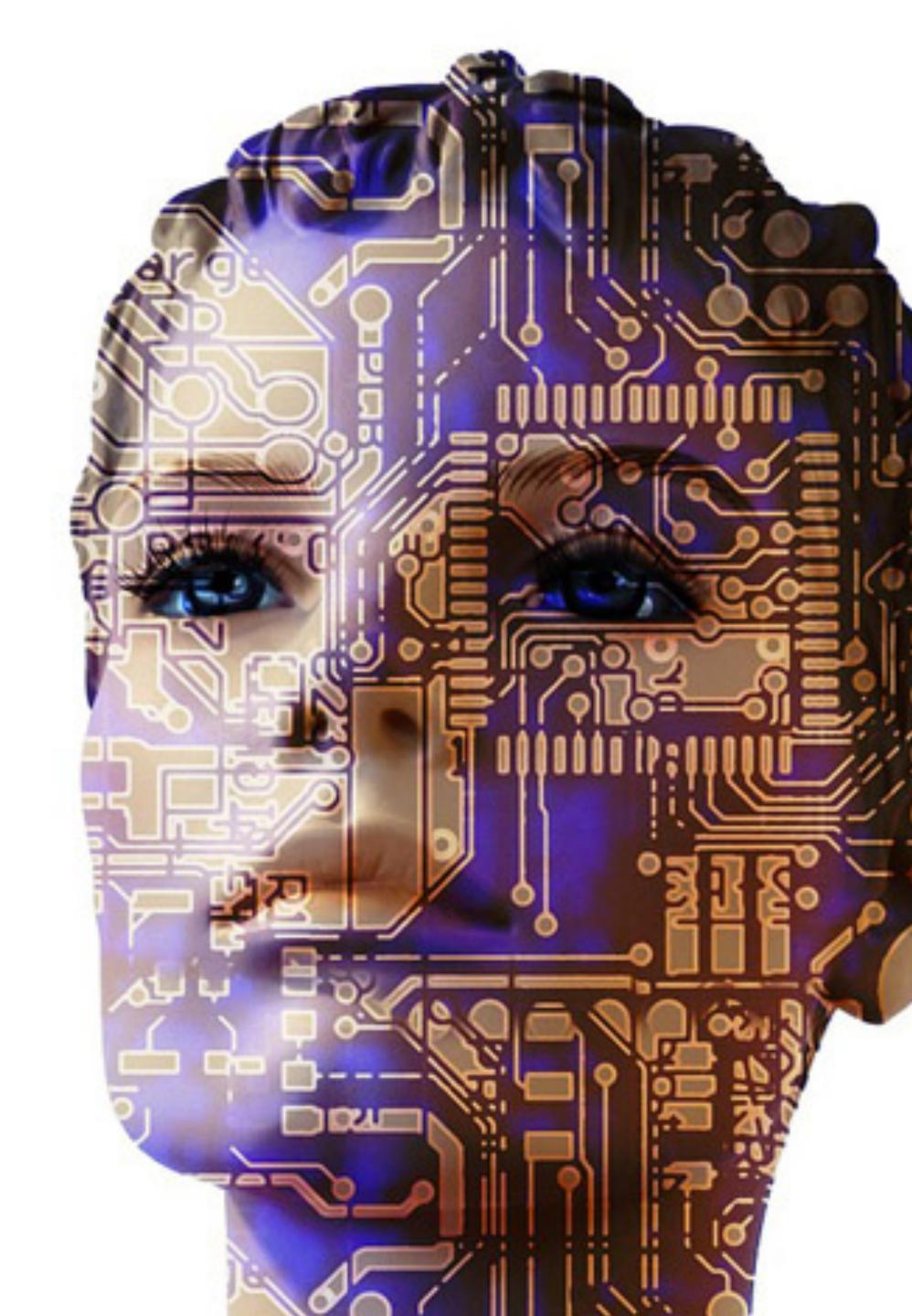
Hackathon 1: Q&A Engine Design







What is the business context?

- Company X is a fortune-500 perfume manufacturing company
- It sells it products on Amazon
- o It wishes to build an analytical query engine on top of the reviews and comments on amazon
- Sales and marketing team of company X would use this engine
- Based on brand/product perceptions on amazon Company X wishes to fine tune its
 - Sales and marketing strategy
 - New product innovation

Making Al-based Q&A engine for brand management and new product innovation

What is the technical problem statement?

- Build a Q&A engine on top of amazon reviews/comments corpus; such that
- o If user searches with a product name/features; the engine
- First finds out the most relevant review from all reviews in amazon
- o Given this first set of output, it then finds out from the rests the most diverse set of reviews
 - Relevant
 - Diverse

For example

- o Input question: 'can I use 'B00028OSI0'on my face?'
- Answers:
 - 'All over! Buy it its worth every penny.' positive sentiment
 - "Someone please tell me this product is alcohol free? It smells like alcohol and I'm not sure I should put it on my face. I
 do not see positive results yet either." negative sentiment
 - "Initially I began but putting this on my face after washing it. I must say that it can't be used alone." negative sentiment
 - "The ingredients are non-toxic, non-drying and very helpful. It didn't work on my sensitive, picky, facial skin, but I do
 use it as a hair gel. ...". negative sentiment

Other details

Datasets:

- Amazon question/answer data on beauty products
- Amazon product reviews on beauty products
- Validation Techniques:
 - Every reviews would be ranked based on
 - Relevance score BM25 metrics
 - Sentiments
 - Both of these metrics must be shown on the final result set

Team structure and final deliverable

- o Team:
 - Max 4 people per team
- Deliverables
 - Running web-based system (with/without UI part)
 - Code on public github (one account per team)
 - Technical presentations on approach (20 mins +5mins q&a)
 - o Individual contributions must be explicitly mentioned in a slide
 - Free to refer anything available over web

Thank You!