Architecture Exercise 1





Agenda

- → Exercise Parameters
- → Presentation Format



Exercise Parameters



Twitter Analysis Case

One hour for preparation, and then oral presentations. Write Group number on blackboard when ready.

- → Company X is creating sentament analysis tools for political candidates to evaluate the publics reaction to political statements. But needs help designing the architecture of their system. You have been hired as a consultant to help with this task.
- → The solution Requirements:
 - → The analysis tool (built by Company X) analyses the unstructed sentances, but also uses the metadata added by twitter.
 - → Ingest live data and react to live events happening so they can measure reactions when a press briefing is happening.
 - → Automatically connect to their clients database holding events, schedules, and more. This data needs to be coalated with the ML model of the analysis tool to function as intended, and is also needed for historical analysis.
 - → The analysis tool is trained on historical data, so there needs to be designed a solution for re-training the ML model, and let it take over the current running live model.
 - → A frontend needs to be available to handle live events and updates as new data is analyzed.
- → Remember to:
 - → Identify bottlenecks
 - → Address data format
 - → Address deployment platform
 - → Address data flow
 - → Address how data is analyzed
 - → Address how the frontend gets data
 - → Address how the platform is hosted (Hardware, Cloud, etc.)
- → Remember Diagrams are your most valuable tools to communicate your architecture!

