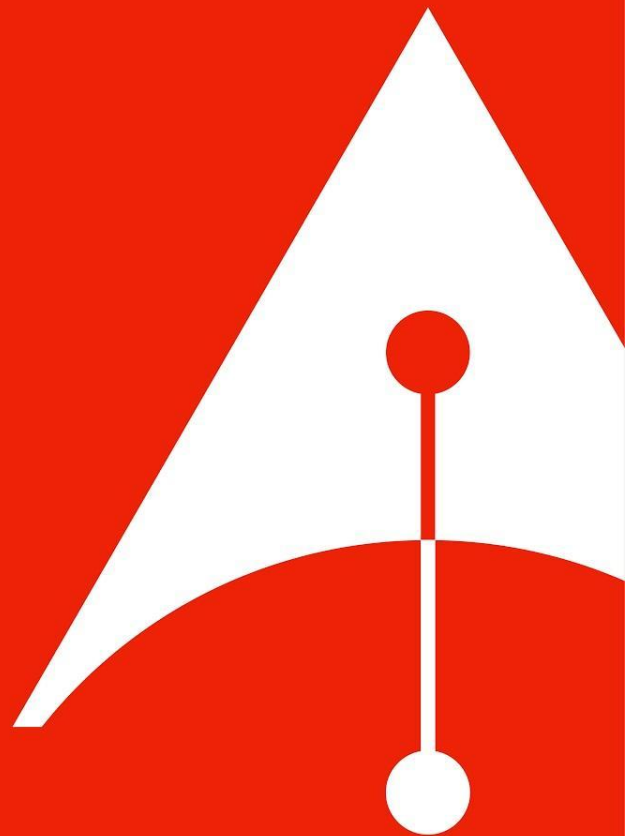# Data Science: Project Briefing

# Overview

- Guidelines

- Timeline

- Proposal

- Data Assessment Report

- Project Presentation

# Project Guidelines

**OBJECTIVE:  Address a real-world business use-case of your choice using a real-world dataset, employing the concepts and skills learned in this course. Ideally, you will be able to apply data science to problems in your own research area or domain.**

- Group of 3 (Maximum) - be responsible for scope and division of tasks

- Datasets to be sourced by the student - whether own or publicly available dataset

- Proposed Use Cases to be approved by the instructor

- Outputs:
  - Proposal
  - Working ML Model(s)
  - Project Presentation

# Project Timeline

ANALYTIKS

| May 15, 2020 | May 18, 2020 | May 23, 2020 | June 20, 2020 (Tentative) |

**Proposal Submission**     **Project Proposal Approval**     **Data Assessment Report**     **Project Presentation**

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# Project Proposal

Include the following information:

- Project Title

- Dataset(s)  and sources + # of rows and # features

- Project Idea / Business Use Case Description (approx 2 paragraphs)

- Programming Language / Tool to be Used

- Literature review list (minimum of 3)

- To be submitted through the Analytiks DS Bootcamp 2020 Classroom by May 15, 2020

# Data Assessment Report

Data Description

- Sources

- Field Description + Data Type

- Assessment of Data Quality
  - Cleanliness
  - Sparsity
  - Balance (for Classification problems)

- Indicativeness
  - Linear Correlation

- To be submitted through the Analytiks DS Bootcamp 2020 Classroom by May 23, 2020

ANALYTIKS

# Project Presentation



**The main deliverable is a presentation to the class, with an accompanying deck**

- Project Overview
  - Business Use Case
  - Data Sources

- Methodology
  - Data Preparation
  - Modeling
  - Optimization

- Evaluation / Results
  - Comparative Analysis - Benchmarks / Multiple Algorithms
  - Visualizations

- Recommendations
  - Improvement
  - Deployment

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Thank you.

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