Hands on Project

Steps:
- Covers a problem of your choice
- Find data or create it!
- Use multiple techniques to come up with solution (better than 1 approach)
- Analyze and document the results

Requirements:
- <u>1 student / project</u>
- Python
- Use existing libraries as much as you can

Tasks & Deadlines

Task	Weight	Deadline
Proposal	5	1/11/2020
Final working project (Code)	15	20/12/2020
Documentation + (Presentation*)	10	

* Presentations will be scheduled based on time availability during semester.

Current grade distribution could change if presentations are scheduled.

Proposal

Less than 2 pages.

Structure:
- Problem Statement:
  - Select a problem and describe what is it you are trying to solve
- Describe Data & Data source:
  - Describe the data available and where you are going to get it from
  - Sample Data Sources:
    - Kaggle.com
    - Link to 33 data sources: https://www.forbes.com/sites/bernardmarr/2016/02/12/big-data-35-brilliant-and-free-data-sources-for-2016/#4aafeaffb54d
- Proposal:
  - Propose how you think you will solve it, this is ok to change later on.

Final Report

4-8 Pages in IEEE conference format.

Use the A4 MS Word conference format: https://www.ieee.org/conferences/publishing/templates.html

You can use Latex if you prefer

Structure:
I. Introduction: Problem statement
II. Literature Review: similar work in the same problem (3 papers who tried to solve the same or related problem)
III. Experimental Setup: Describe the data and the environment used
IV. Algorithm: Detailed steps used in preparation and analysis of the data
V. Results and Analysis.
VI. Conclusion
VII. References

Presentations

Short and concise

Duration: 10 minutes

Summaries:
- Data
- Method
- Results