

## **In\_Class Activity- Risk Assessment**

### Part 1: Qualitative Assessment

Expand on the risk identification In\_class activity under Module 2 and make an exhaustive list of potential risks (negative and positive). Based on this diverse set of risks:

- 1) Review news articles, industry reports, policy debates, and other online materials regarding the organization and the industry in which it operates.
- 2) Create a category of risks (reasonable)
- 3) Analyze possible patterns/relationships between different categories of risks. Note this will help you with the risk prioritization and impact assessment.
- 4) Complete the risk calculation sheet with four risk types to assess likelihood-by-impact.
- 5) Update your risk log from In\_class activity based on the likelihood and impact of the risk you identified.
- 6) Develop your risk heat map (see sample [risk matrix](#) here) using Excel to depict risk likelihood ("X" axes) by impact ("Y" axes). Do NOT use 1 to 10 as your values are not 1 to 10. You must reflect what is in the risk calculation sheet.
- 7) Plot your scores in relation to the total risk score in a risk heat map and with a range of high, medium, and low risk colored in red, yellow, and green, respectively.

### Part 2: Risk Assessment- Predictive Analysis

Refer to the sample in [this Mock project repo](#) for replication strategies.

Prepare the risk log dataset

Train a machine learning classifier (Random Forest) to predict severity

Create a heatmap of likelihood vs. impact