My deliverable presentation

Functions, Risk Scoring, Tasks Tue, 2020-11-16 David



Agenda

D1 Functions

D2 Scoring

D3 Tasks

D1 Functions

sex = scoring explanation core_name score_question score_explanation type Q2.1: Please list the most significant climate... 1: less than 2 two hazards, 2: less than 5, 3:... r_score_1 cis r_score_2 Q2.1: Please list the most significant climate... 1: less than 1 two hazards, 2: less than 2, 3:... cis cis Q2.1: Please list the most significant climate... mapped values for every single risk from 1 to ... r_score_3 Q2.1: Please list the most significant climate... mapped values for every single risk from 1 to ... cis r_score_4 QC2.3: Have you identified any inherent climat... 1: no inherent risk, 5: inherent risk identified cos r_score_1 r_score_2 QC2.3a: Provide details of risks identified wi... mapped values for every single risk from 1 to ... cos cos r_score_3 QC2.3a: Provide details of risks identified wi... mapped values ("Transition risk": 0, "Physical...

	account_number	year	r_score_1	r_score_2	r_score_3	r_score_4	r_score_total
0	1093	2019	3.0	1.0	4.0	4.0	3.00
1	1184	2019	2.0	3.0	5.0	5.0	3.75
2	1184	2020	2.0	3.0	5.0	5.0	3.75
3	1499	2019	4.0	5.0	4.0	4.0	4.25
4	1499	2020	4.0	5.0	4.0	4.0	4.25
	***		***	***	***		
1289	848409	2020	1.0	2.0	4.0	4.0	2.75
1290	848474	2020	4.0	3.0	2.0	1.0	2.50
1291	848476	2020	2.0	3.0	5.0	5.0	3.75
1292	848478	2020	1.0	2.0	3.0	3.0	2.25
1293	73762	2019	NaN	NaN	1.0	1.0	1.00

r_score_tota	r_score_3	r_score_2	r_score_1	year	account_number	
5.0	5.0	Nan	5	2018	58	0
5.0	5.0	NaN	5	2019	58	1
3.0	NaN	1.0	5	2020	58	2
1.0	NaN	NaN	1	2018	64	3
1.0	NaN	NaN	1	2019	64	4
	***	***	***		***	
3.0	NaN	1.0	5	2020	848215	2550
3.5	NaN	2.0	5	2020	848284	2551
3.5	NaN	2.0	5	2020	848285	2552
4.0	NaN	3.0	5	2020	848471	2553
5.0	NaN	5.0	5	2020	848541	2554

cos = corporates scores

```
4 base question = "C2.3" # question to base score on
5 base column = 0
                               # question to base score on
7 # select rows and get responses from dataframe
8 data = df.copy().query('question number == @base question & column number == @base column')
  # provide corrosponding question context as variabel and output
11 q string = print question(data, base question, [base column])
12
13 # calculate scoring
14 response map = {"No": 1, "Yes" : 5}
                                                                                # set mapping dictionary
15 data[score] = data.response_answer.map(response_map)
                                                                                # map values to df
16 | gob = data.groupby(["account number", "year"], as index=False)[score].sum() # group multianswers
17 gob = gob.loc[:,["account number", "year", score]]
                                                                                # select relevant columns
18
19 # add score to dataframe
20 cos = pd.merge(left=cos, right=gob, on=["account number", "year"], how="outer")
21
  # add explanation to dataframe
23 guestion = pd.Series(data=[
24
                           e type,
25
                           score,
26
                           g string,
27
                           "1: no inherent risk, 5: inherent risk identified"],
```

1 df = cor.copy() 2 e type = "cos"

28

cis or cos

index=sex.columns)

29 sex = sex.append(question, ignore_index=True)

3 score = "r score 1" # name of score

Risk Scoring

1. Cities

- a. Number of identified hazards
- b. Significant impact of hazards
- c. Current probability of hazards
- d. Current magnitude of hazards

2. Corporates

- a. Inherent risk identified
- b. Risk type mapping
- c. Transitional / physical risk
- => Results as uploaded to GitHub yesterday



D3 Todays Tasks

My Task Schedule

- 1. Update Risk Scoring / Bugfixing
- 2. Optional: Create Social or Opportunities Risk Scoring
- 3. t-SNE approach

