HW_05 - Databricks



DSCI 417 - Homework 05

Sean Graham

Problem 1: Sparse Vector Representation

- 1. [8, [0,3,4], [1,1,1]]
- 2. [10, [2,4,8], [4,7,2]]
- 3. [10, [2,8], [1,1]]
- 4. [3, [0,1,2], [4,1,8]]
- 5. [6, [], []]
- 1. [0, 0, 1, 0, 0, 3, 0, 9]
- 2. [0, 0, 0, 0]
- 3. [0, 2, 3, 1]
- 4. [0, 1, 0, 0, 0, 1, 0, 0]
- 5. [0, 0, 0, 0, 2, 0]

Problem 2: One-Hot Encoding

file:///Users/GrahamMacbookPro/Desktop/HW_05.html

HW_05 - Databricks

```
+----+
|Group|Group_ix| Group_vec|
+-----+
| C| 1| [8, [1], [1]]|
| E| 2| [8, [2], [1]]|
| G| 4| [8, [4], [1]]|
| F| 0| [8, [0], [1]]|
| A| 6| [8, [6], [1]]|
| D| 7| [8, [7], [1]]|
```

Problem 3: Vector Assembler (Part 1)

Problem 4: Vector Assembler (Part 2)

file:///Users/GrahamMacbookPro/Desktop/HW_05.html

HW_05 - Databricks

file:///Users/GrahamMacbookPro/Desktop/HW_05.html