ELEC 425 – Assignment 3

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**1 – Calculate Joint Probabilities in HMM**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| z | Loaded | Fair | Fair | Loaded | Loaded |
| x | **6** | **3** | **1** | **2** | **4** |
| P(xi | pi) |  |  |  |  |  |
| P(pi | pi-1) |  |  |  |  |  |

**2 – Calculate Joint Probabilities in Viterbi Algorithm**

|  |  |  |  |
| --- | --- | --- | --- |
|  | t = 1 | t = 2 | t = 3 |
| k=1 (fair) |  |  |  |
|  |  |
| k=2 (load) |  |  |  |
|  |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  | t = 1 | t = 2 | t = 3 |
| k=1 (fair) | 0 |  |  |
| k=2 (load) | 0 |  |  |