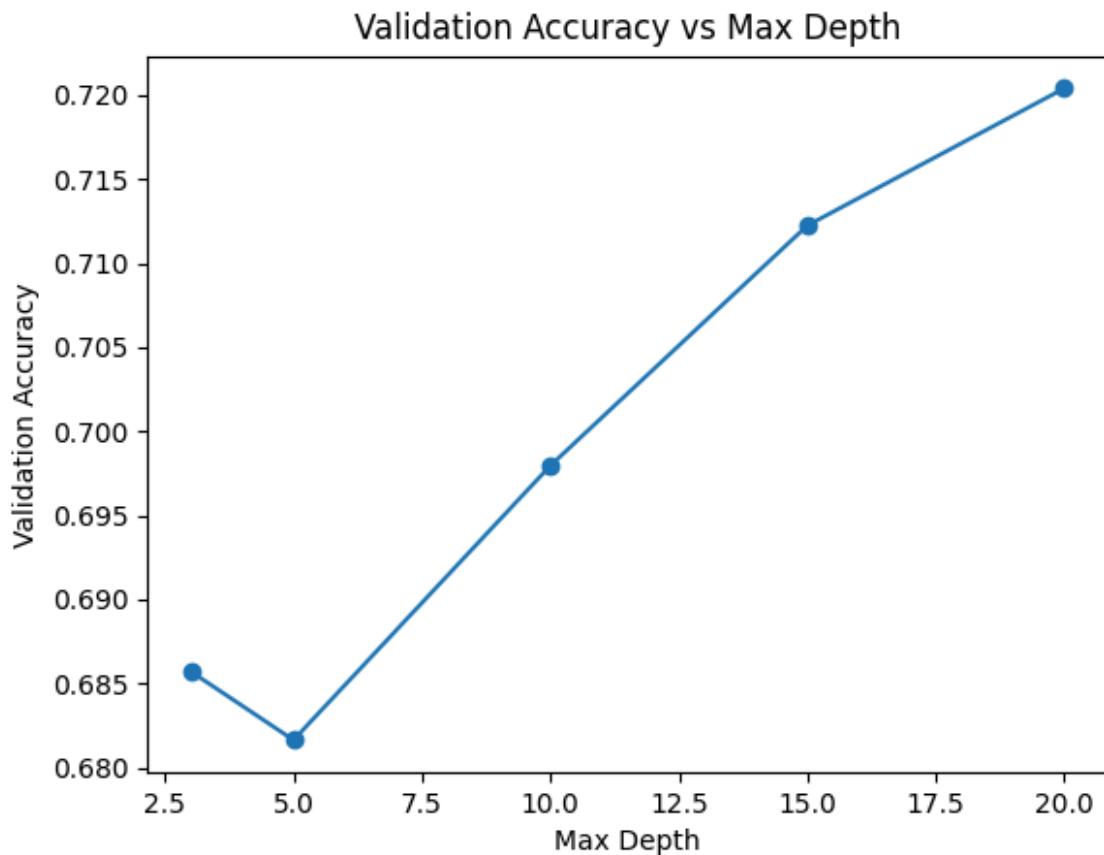


## Task 2:

Here are my results for task 2:



Best max\_depth: 20, Validation Accuracy: 0.7204081632653061

Test Accuracy: 0.736734693877551

Tree Visualization (First Two Layers):

```
|--- the <= 0.50
|   |--- hillary <= 0.50
|   |   |--- donald <= 0.50
|   |   |   |--- truncated branch of depth 18
|   |   |--- donald > 0.50
|   |   |   |--- truncated branch of depth 18
|   |--- hillary > 0.50
|   |   |--- clinton <= 0.50
|   |   |   |--- class: 0
|   |   |--- clinton > 0.50
|   |   |   |--- truncated branch of depth 13
|--- the > 0.50
```

```
|   |--- trumps <= 0.50
|   |   |--- donald <= 0.50
|   |   |   |--- truncated branch of depth 18
|   |   |--- donald > 0.50
|   |   |   |--- truncated branch of depth 18
|   |--- trumps > 0.50
|   |   |--- market <= 0.50
|   |   |   |--- class: 1
|   |   |--- market > 0.50
|   |   |   |--- class: 0
```