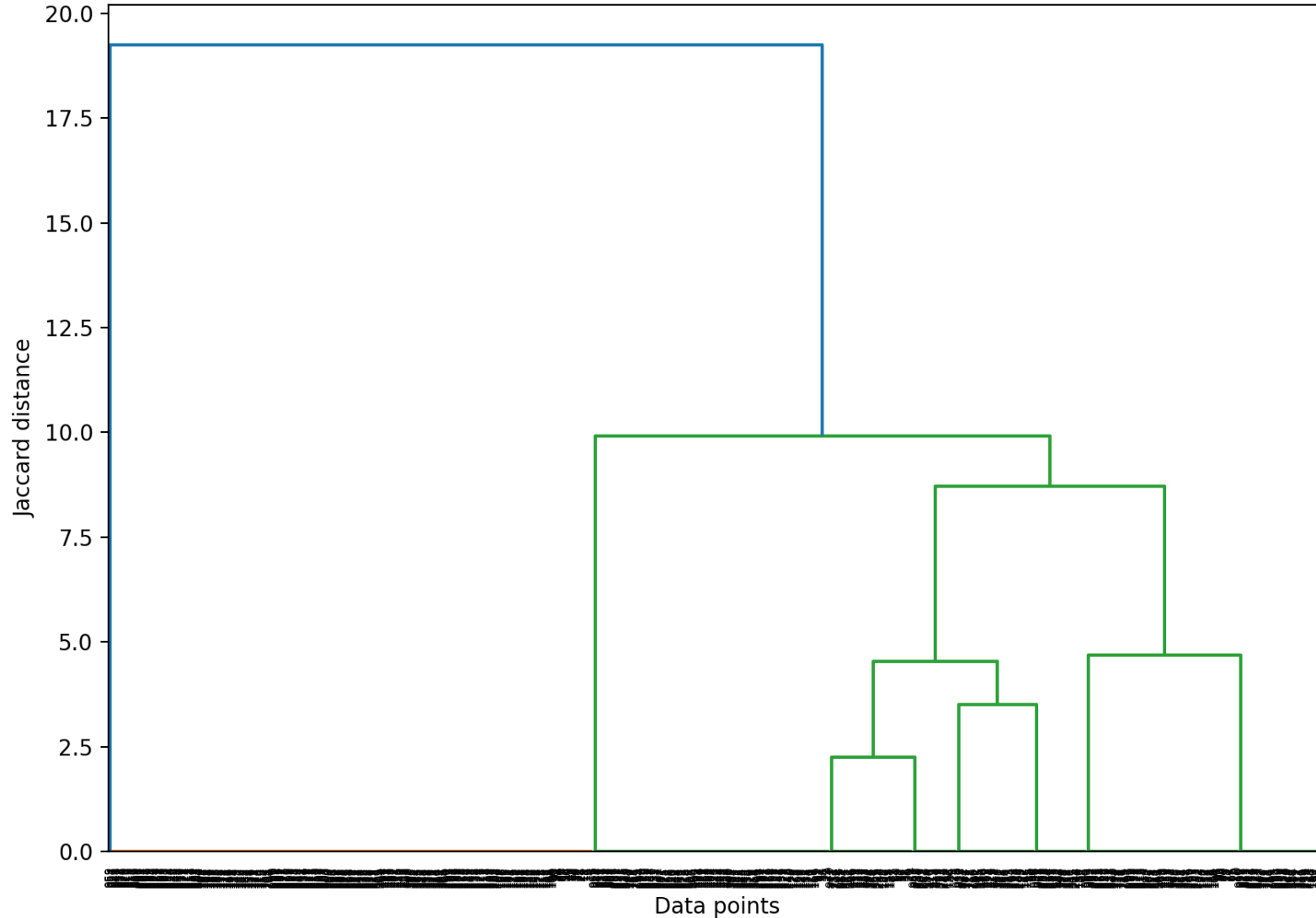


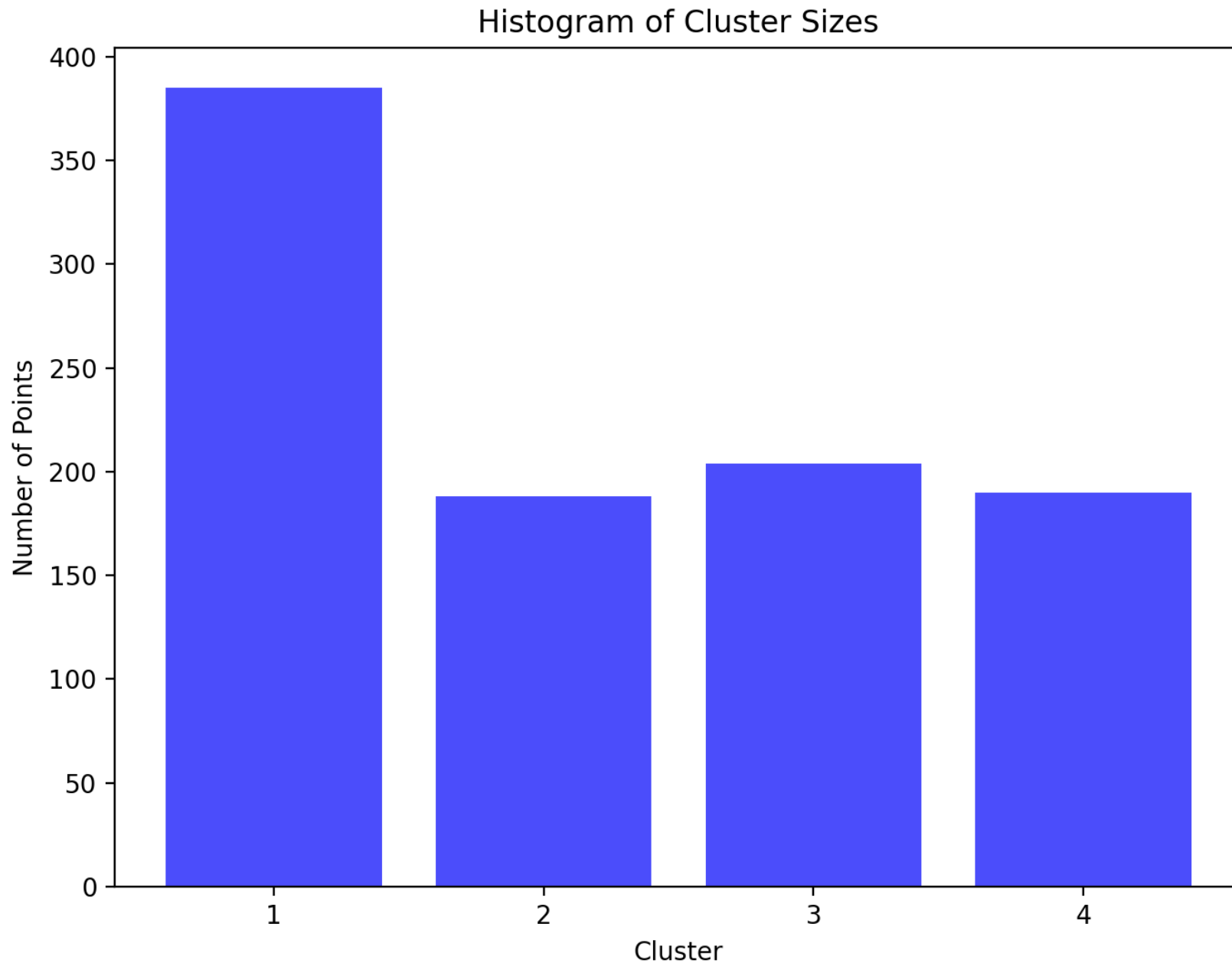
Project-4 Cluster Analysis

By Vishakha Mishra

Hierarchical Clustering Dendrogram

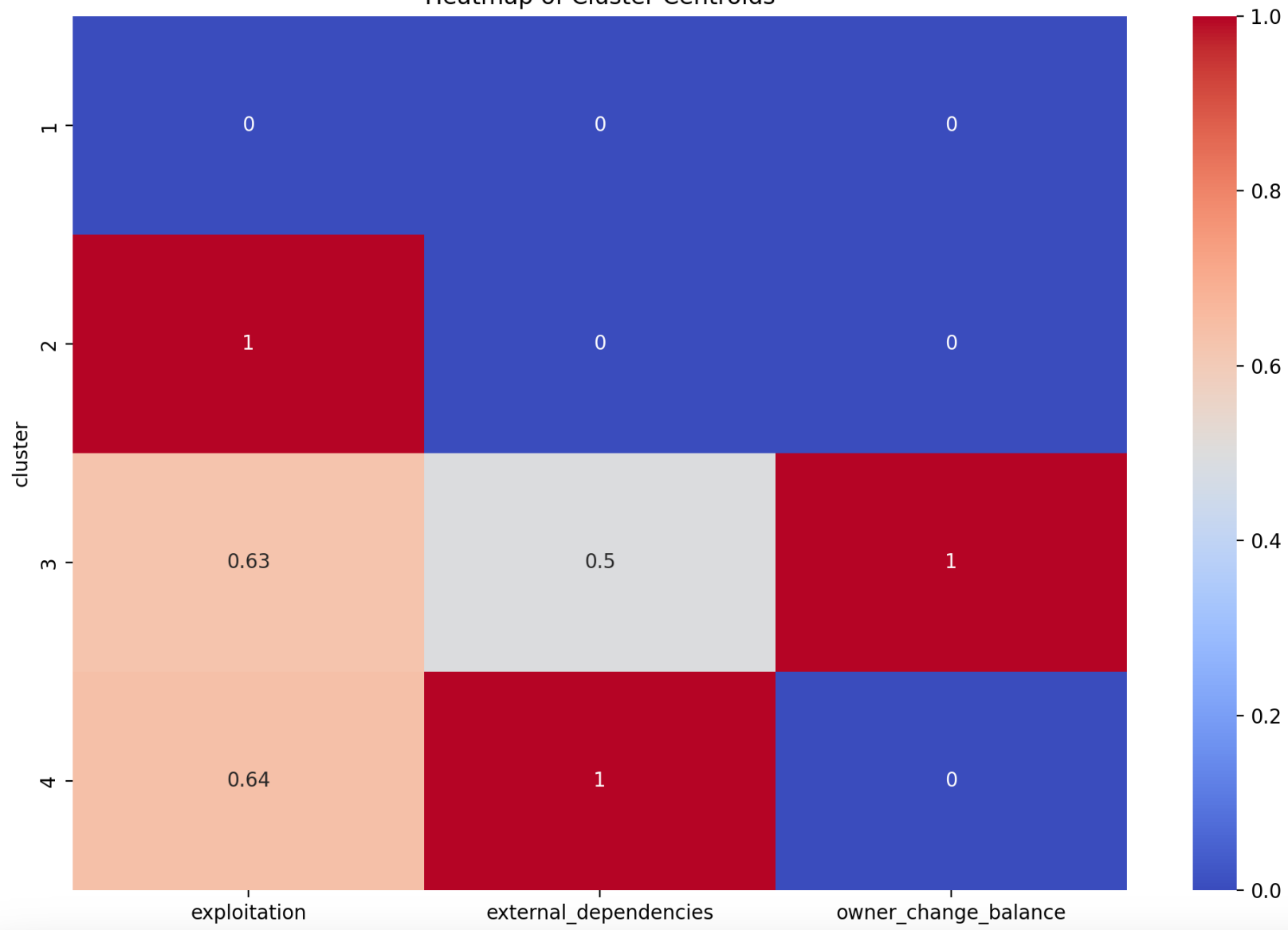


- The dendrogram, shows 2 major cluster.
- The green cluster has many sub-clusters
- Optimal number of cluster seem to be 2 i.e. the blue cluster and the green cluster



- We see 4 cluster in the histogram
- Cluster 2 and 4 are of same points
- Cluster 1 and 3 are too distinct

Heatmap of Cluster Centroids



We see four clusters:

- In Cluster 1 all features are 0 indicating smart contract has no risk
- In Cluster 2 exploitation is only at risk
- In Cluster 3 owner_change_balance poses highest risk followed by exploitation and external_dependencies
- In Cluster 4 external_dependencies shows greater risk, followed by exploitation, however owner_change_balance shows no risk