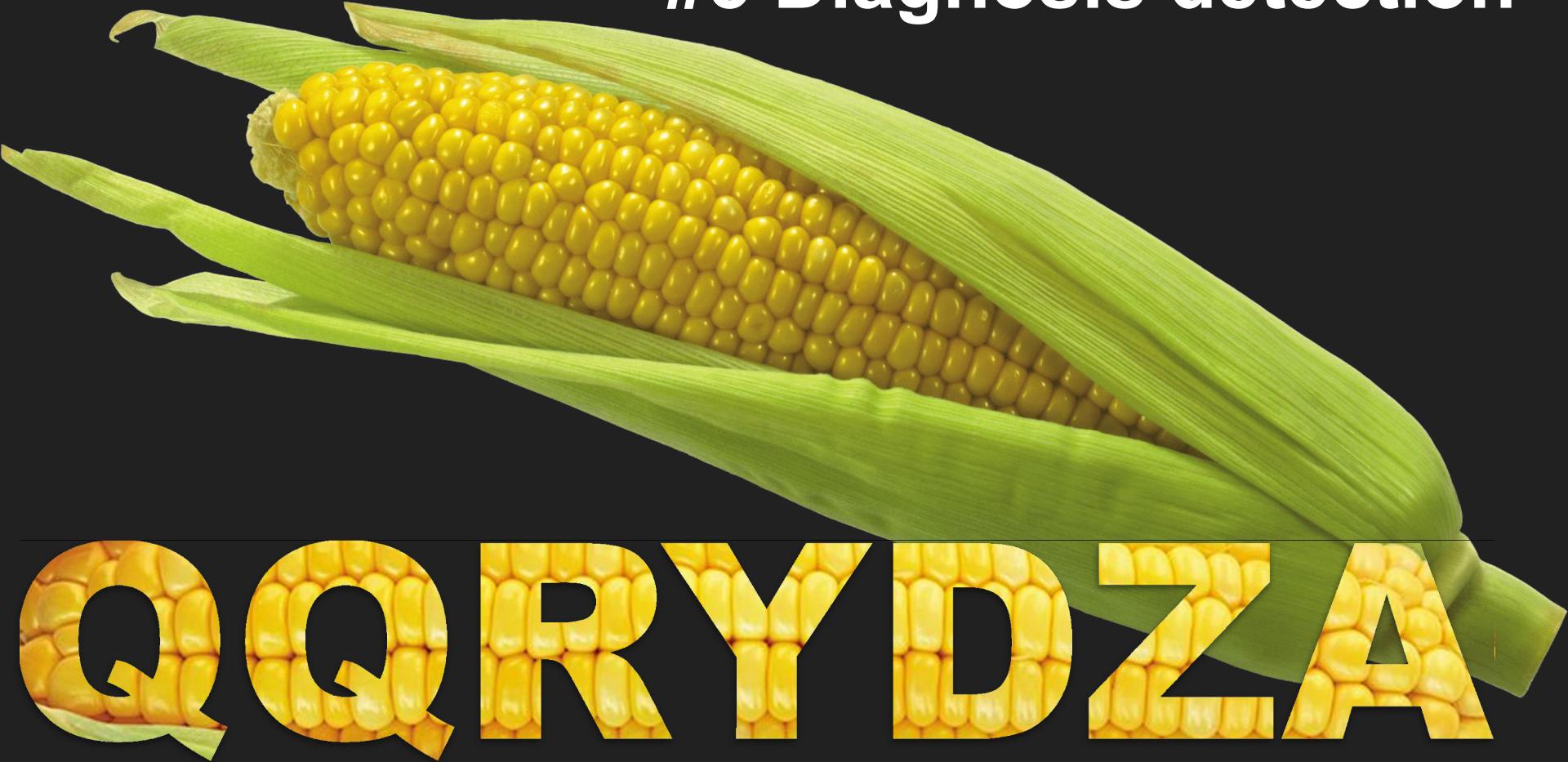
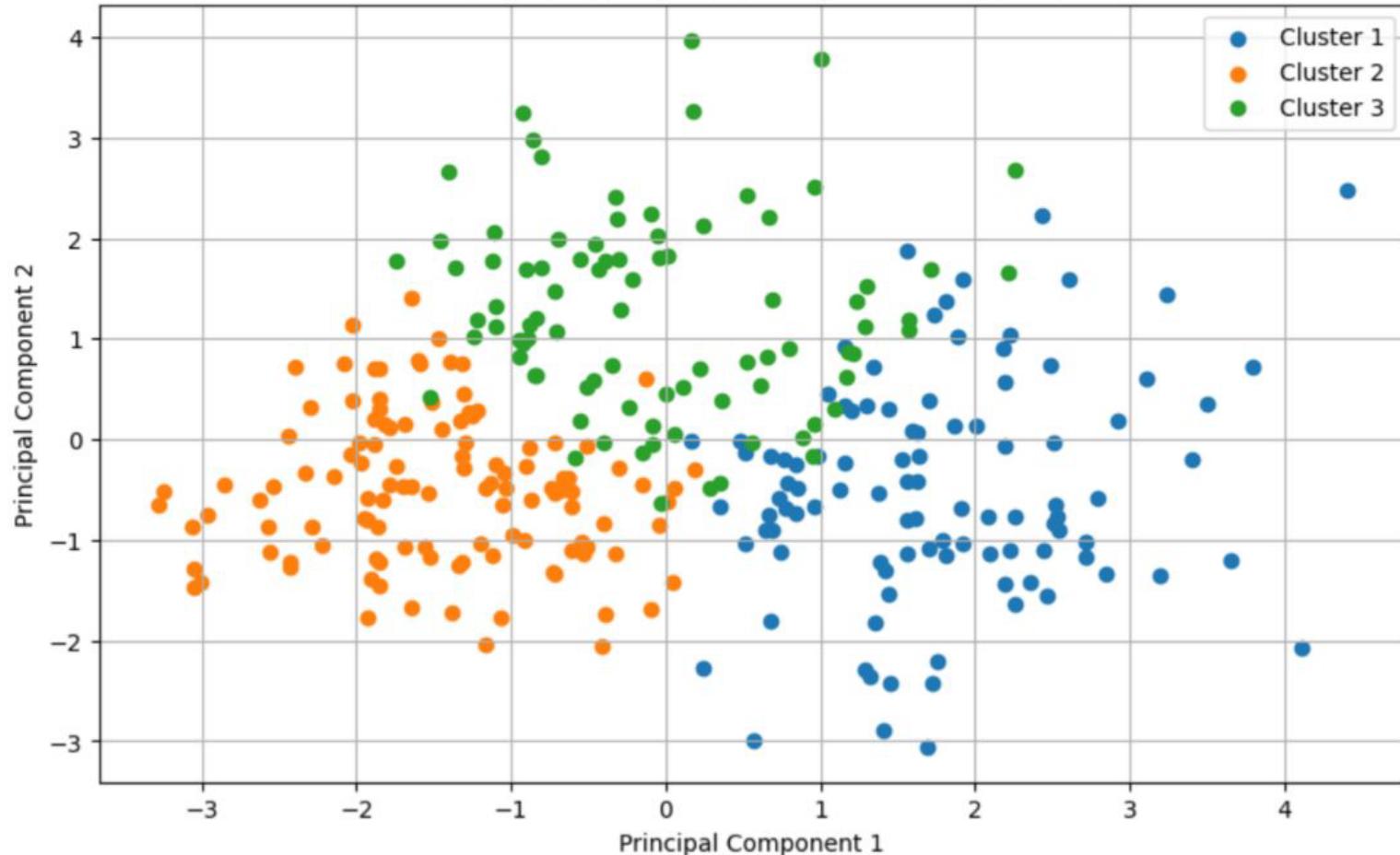


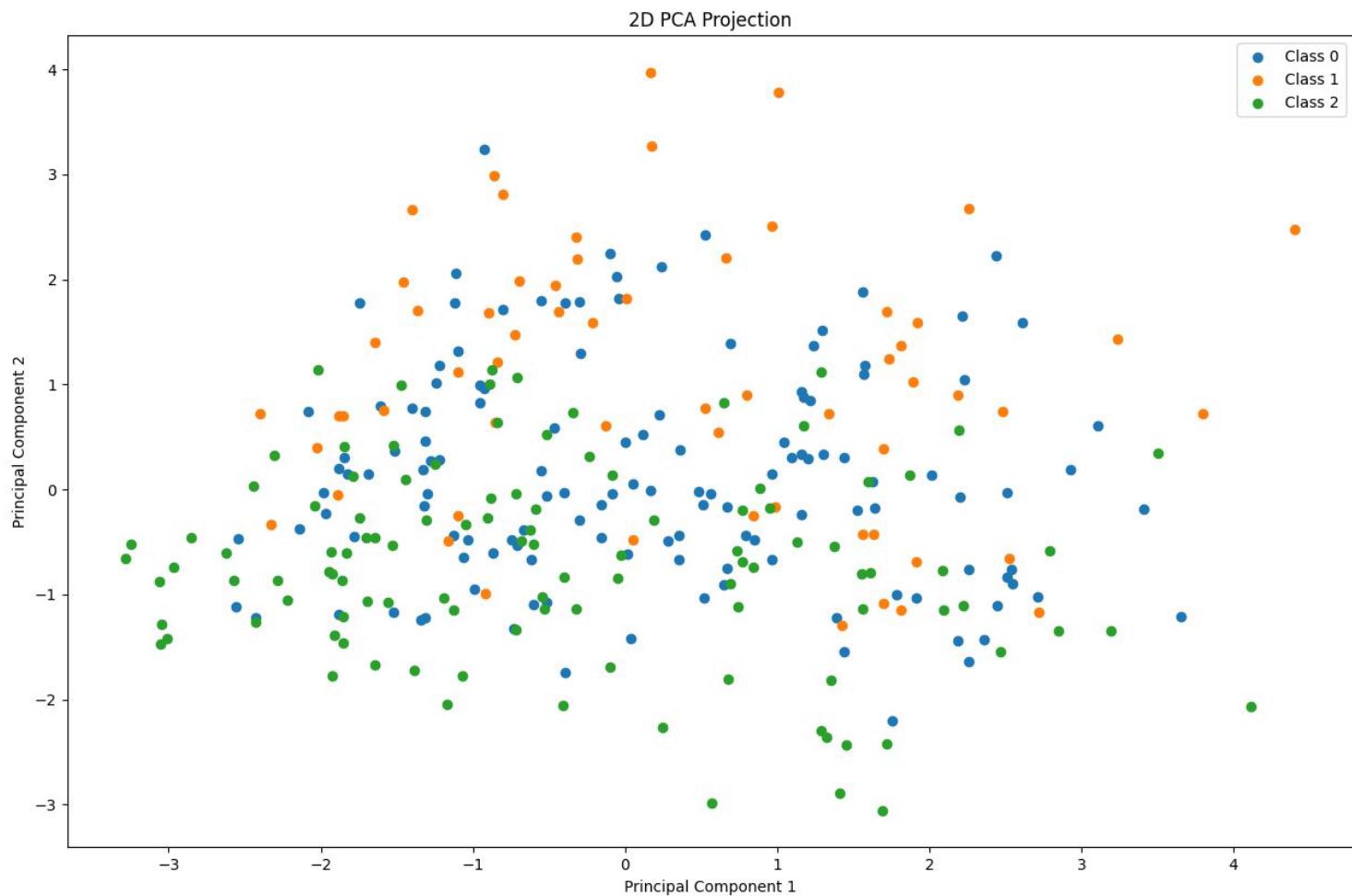
#5 Diagnosis detection

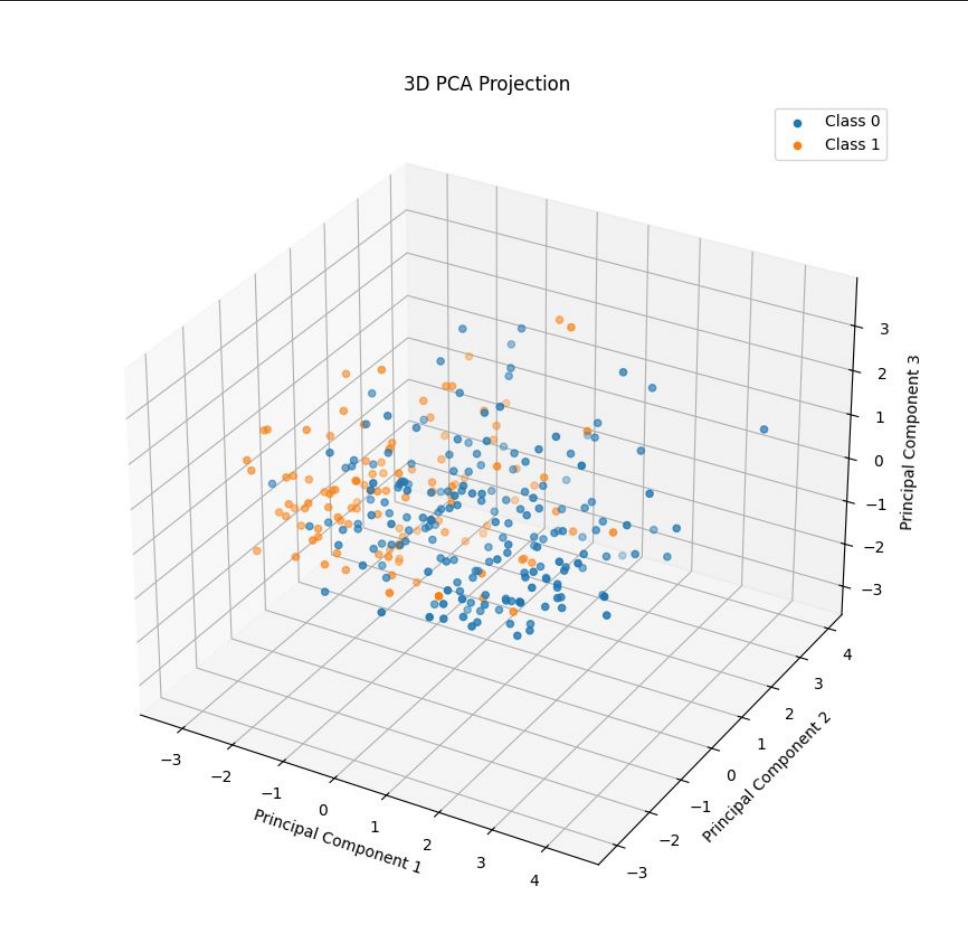


QQRYDZA

PCA with K-means Clustering - 2D Scatter Plot







Clustering Quality (Silhouette) Comparison

Classical k-means

< 0.19

(no structure)

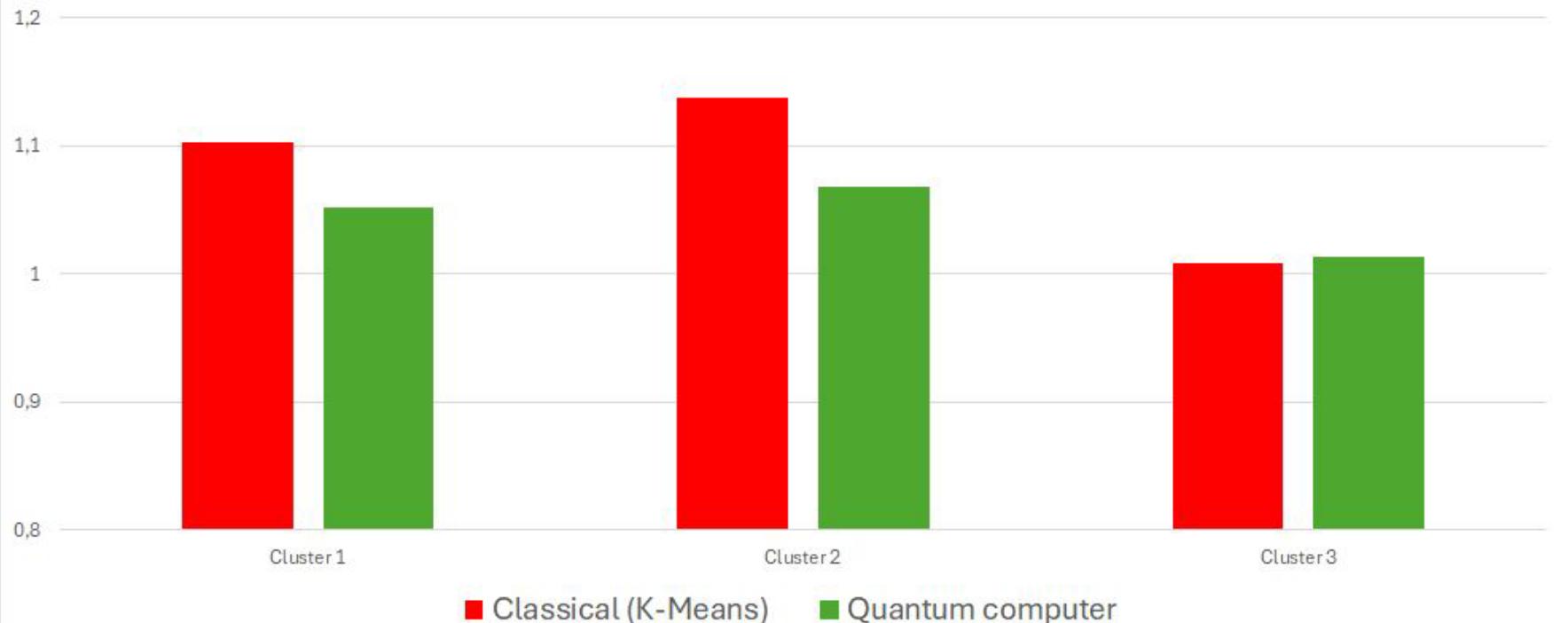
Quantum

~ 0.25

(possible weak structure)

Algorithms comparison (lower = better)

Average within-cluster dispersion



Is Quantum Better for our approach?

We need to conduct further research to clarify the findings.

Additional studies will help provide a more definitive understanding.



Solutions to the encountered problem

Curse of Dimensionality: High-dimensional data can lead to sparsity and require exponentially more data, complicating analysis.

MORE Data: Increasing the volume of data can improve the reliability and accuracy of analyses.

Less Dimension: Fewer dimensions simplify the dataset, making analysis easier and more efficient.

Q&A

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