• Cover page with the project title and the names of the group members with their student IDs

anyone

• Abstract

Sun:

k-means:

GMM-EM

• Table of contents

Anyone:

I. Introduction A. Background information B. Statement of the problem C. Objectives of the study

II. Literature Review A. Previous studies on the topic B. Gaps in the literature

III. Methodology A. Research design B. Data collection methods C. Sampling procedure

IV. Results A. Presentation of findings B. Analysis of data V. Discussion A. Interpretation of results B. Implications of the findings

VI. Conclusion A. Summary of the study B. Recommendations for future research

• List of abbreviations in alphabetical order

Anyone:

Example 1: List of Abbreviations for a Medical Research Paper

AIDS - Acquired Immune Deficiency Syndrome BMI - Body Mass Index CVD - Cardiovascular Disease DM - Diabetes Mellitus HIV - Human Immunodeficien

• List of symbols

Anyone:

List of Symbols for a Physics Thesis

a - Acceleration c - Speed of Light E - Energy F - Force G - Gravitational Constant h - Planck's Constant m - Mass p - Momentum r - Radius v - Velocity

• List of Figures

anyone

a - Acceleration c - Speed of Light E - Energy F - Force G - Gravitational Constant h - Planck's Constant m - Mass p - Momentum r - Radius v - Velocity

• List of Tables

anyone

Table 1: Market Analysis by Product Type Table 2: Sales Forecasts by Region Table 3: Price Comparison of Competitors' Products Table 4: Operating Expenses by Quarter Table 5: Break-Even Analysis Table 6: Cash Flow Projections Table 7: Return on Investment Analysis Table 8: Key Performance Indicators

**• Introduction**

**Sun**

**• Scope and objectives of the project**

Zunao

**• Detailed methodology and implementation**

k-means methodology: Sun

e.g. K-means is a clustering algorithm that aims to group data points based on similarity. It selects K centroids and assigns data points to the nearest centroid, iteratively updating the centroid's position as the mean of its assigned data points. The process repeats until convergence. K-means is commonly used for tasks such as customer and image segmentation, but its performance can be affected by the initial centroid choice, and it may not always produce the optimal solution.

k-means implementation:

Zunao

e.g.

GMM-EM methodology: Sun

GMM-EM implementation: Zunao

• Experimental results

Zunao

• Conclusion

Zunao

• References

Sun

Zunao

• Appendices if necessary

Zunao