# Title

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DAT – 330: Data Mining

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# 1. Abstract

Provide a brief summary (150-200 words) of the project, including objective, approach, and main findings

# 2. Introduction

# Problem Statement

Describe the problem the project addresses

# Objective

Outline the main goal of the project

# Background

Briefly discuss relevant background information or context

# 3. Image Preprocessing

# Techniques

Describe any image preprocessing steps applied, such as resizing, color space conversion, binarization, or edge detection.

# Rationale

Explain why these preprocessing techniques were chosen and how they aid in object detection.

# 4. Model Selection and Implementation

# Chosen Model(s)

# Reasoning

# Implementation Details

# Parameter Tuning

# 5. Dataset Preparation

# Dataset Description

# Dataset Splitting

# Annotations

# 6. Model Training

# Training Process

# Challenges and Adjustments

# 7. Evaluation Metrics

# Metrics Used

# Results

# 8 Results and Analysis

# Detection Performance

# Analysis of Errors

# Diversity/Bias Assessment

# 9. Conclusion

# Summary of Findings

# Limitations

# Future Work

# 10. References