# Forecasting Analysis Report

## Summary

This report summarizes the analysis conducted on the Airlines Passengers dataset for the purpose of forecasting passenger counts.

## Preprocessing

The dataset was cleaned and preprocessed by renaming the columns, extracting month and year information, and splitting the data into training and testing sets.

## Forecasting Models

### ARIMA

Description: Autoregressive Integrated Moving Average model

Parameters: (p, d, q) = (1, 1, 1)

Dummy Variables: N/A

RMSE: 68.72

## Best Model

The best model for forecasting is ARIMA with an RMSE of 68.72.