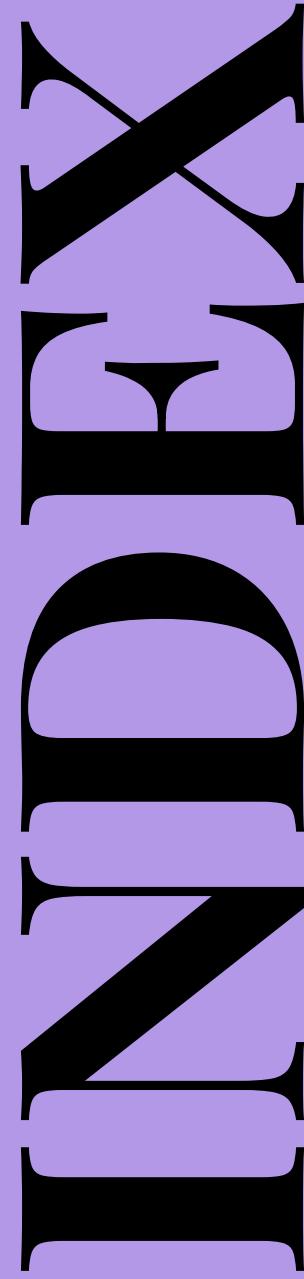


# PROJECT PRESENTATION

## RECIDIVISM ANALYSIS

By Ayushi Gupta



- 
- Exploratory Data Analysis
  - Principal Component Analysis
  - Logistic Regression and Random Forest
  - Kaplan-Meier Survival Analysis
-

**DATA  
PARK**

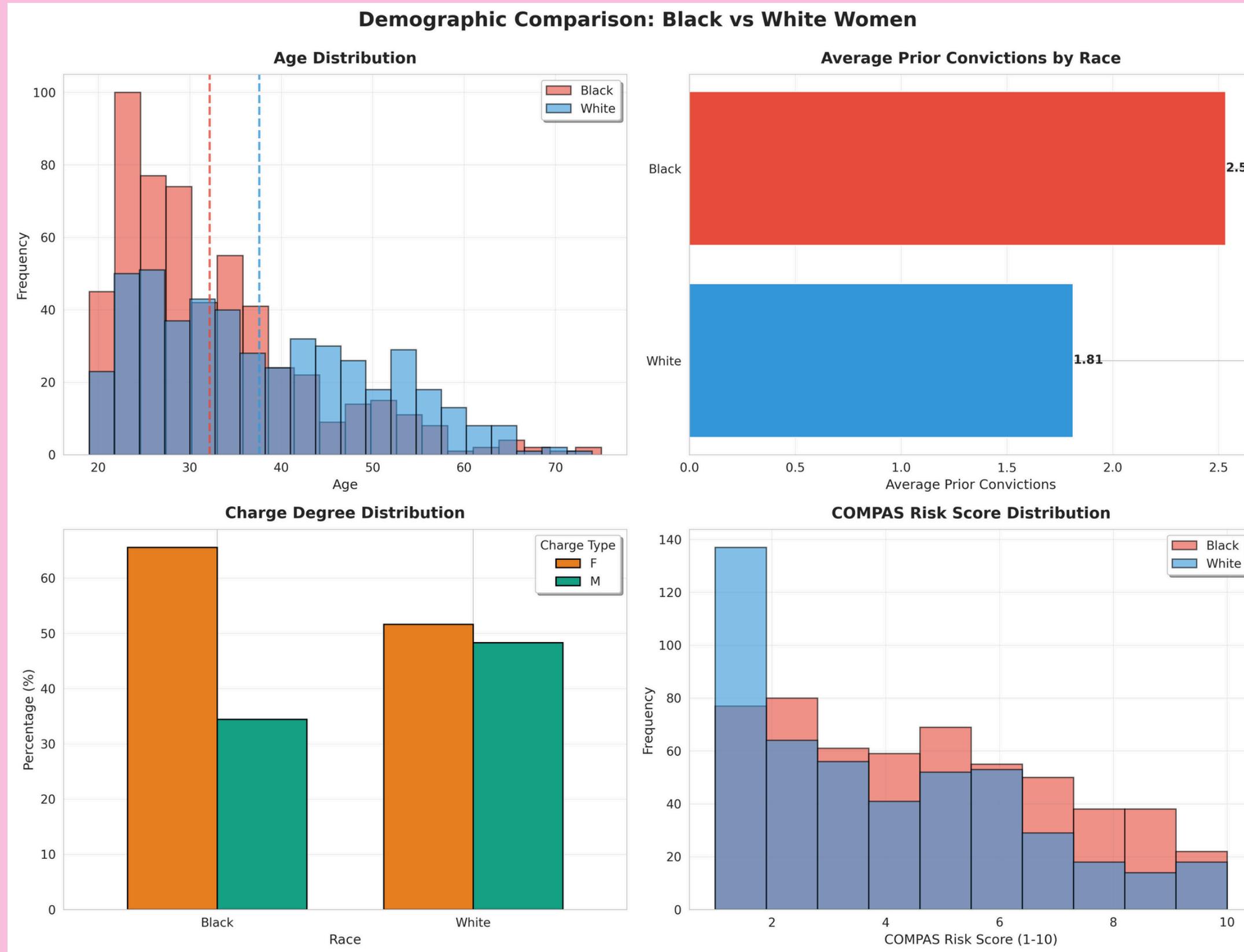
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# Exploratory Data Analysis



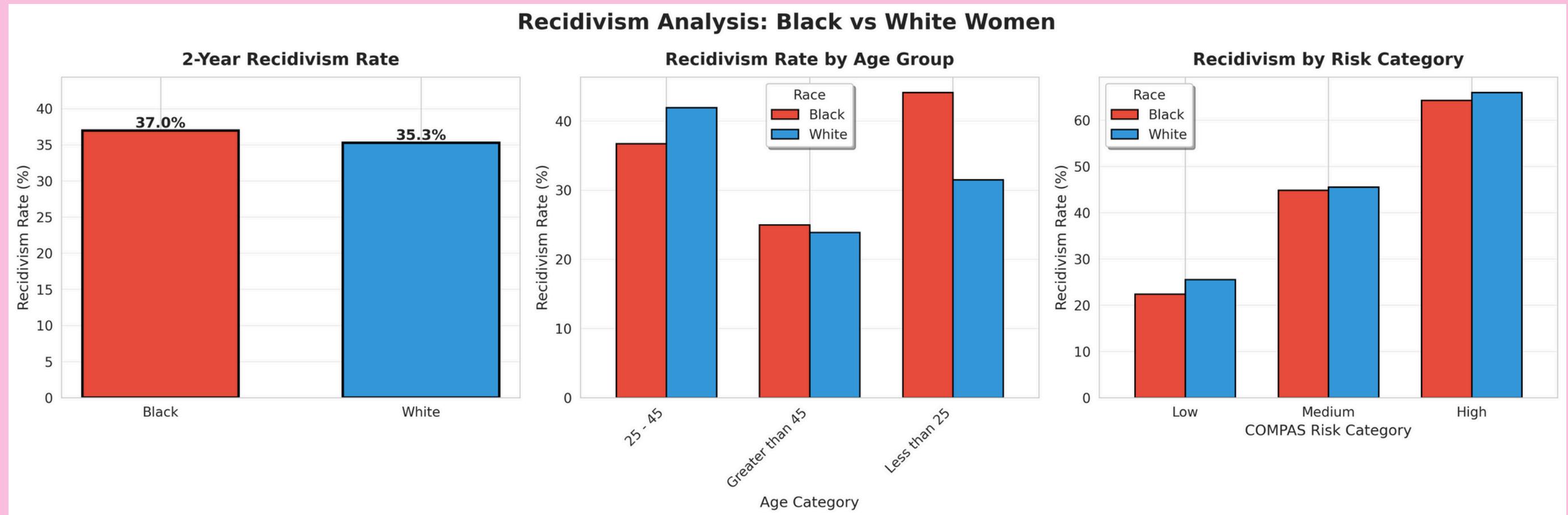
# Demographic Comparison



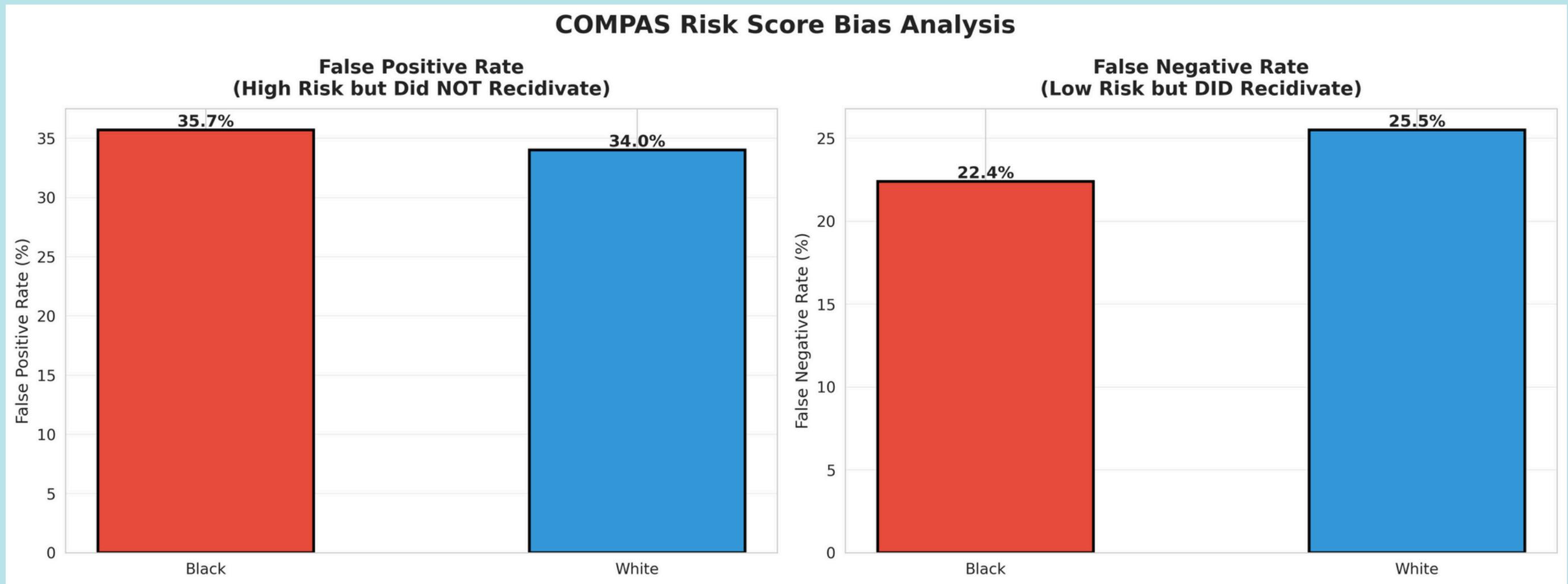
# FEATURE CORRELATION



# RECIDIVISM ANALYSIS

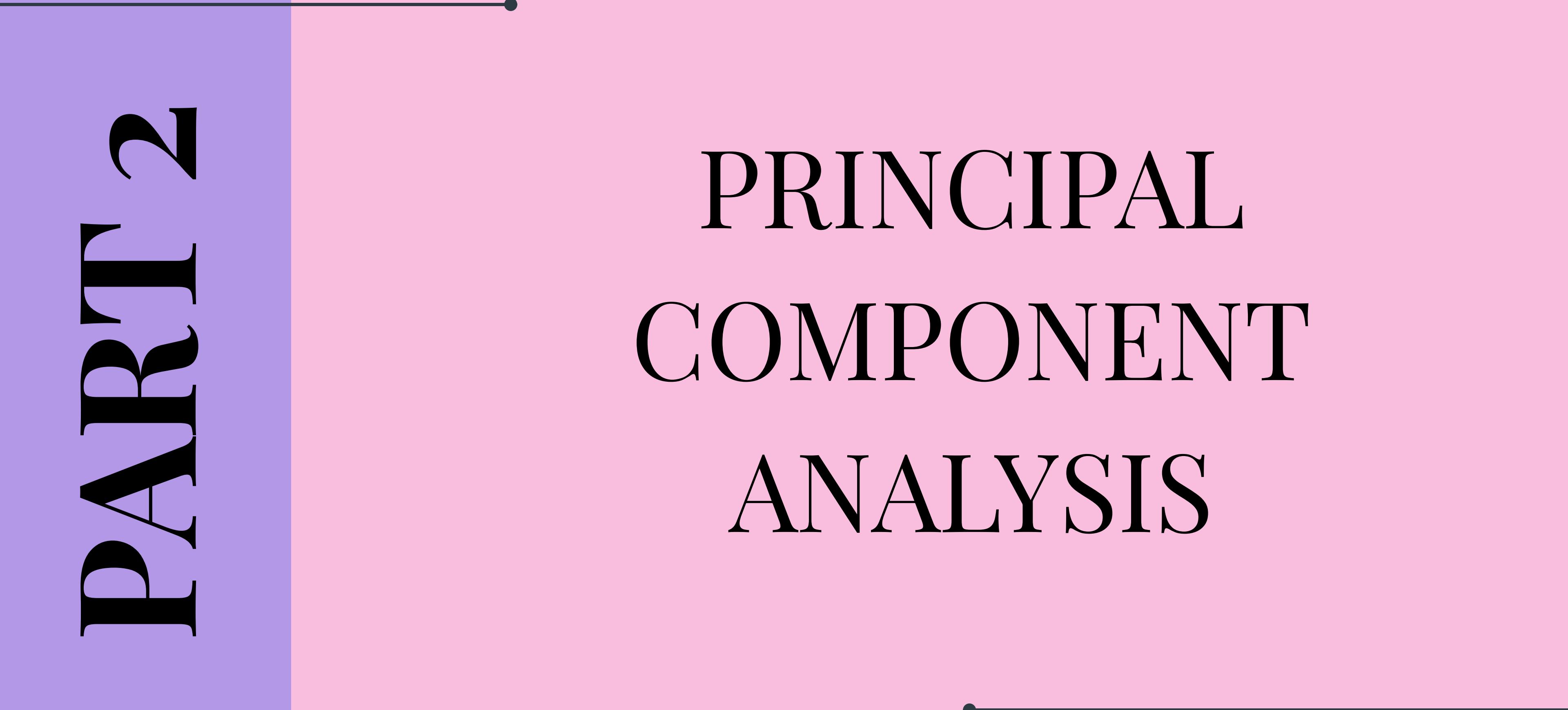


# COMPASS SCORE BIASES

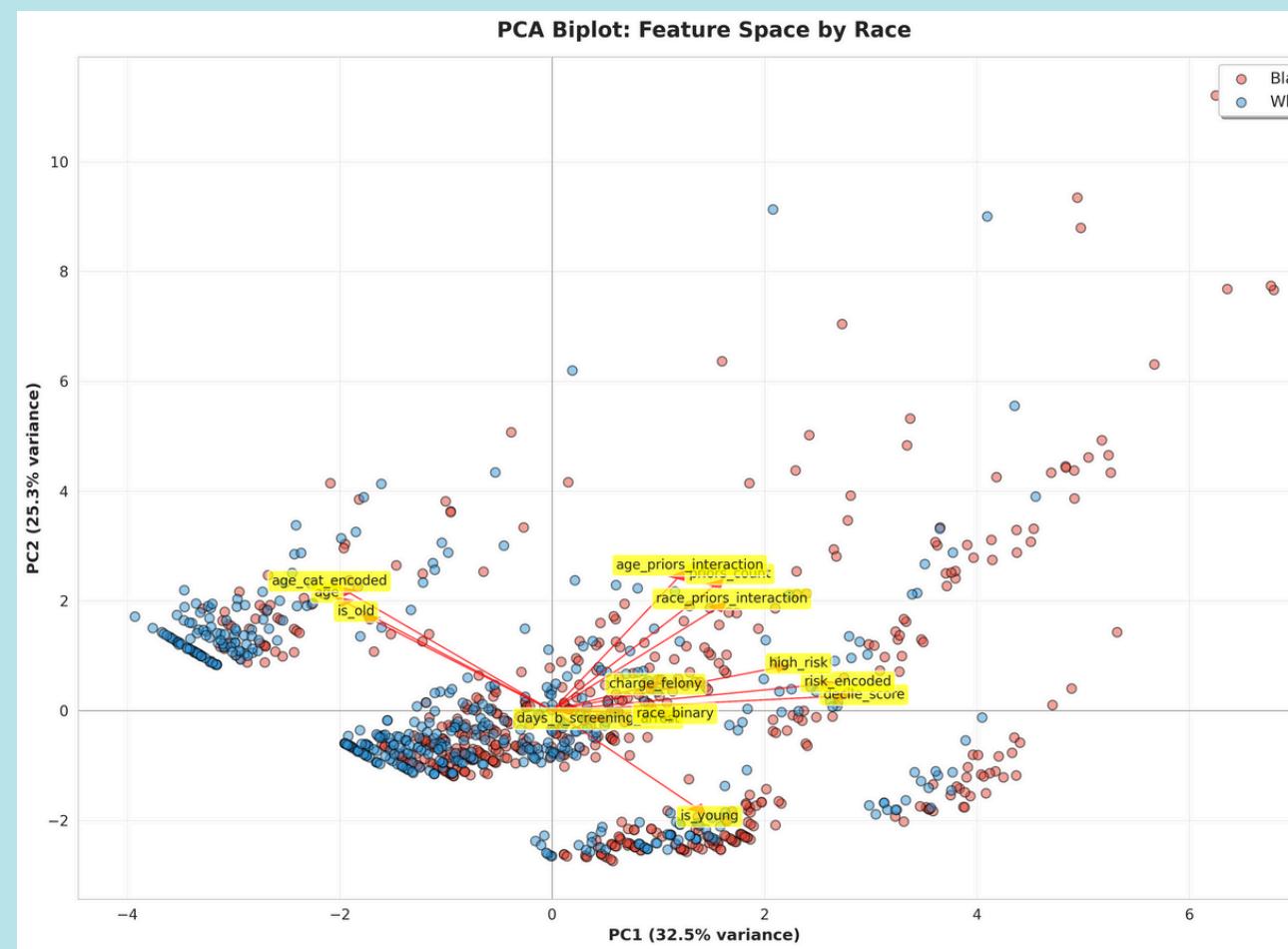
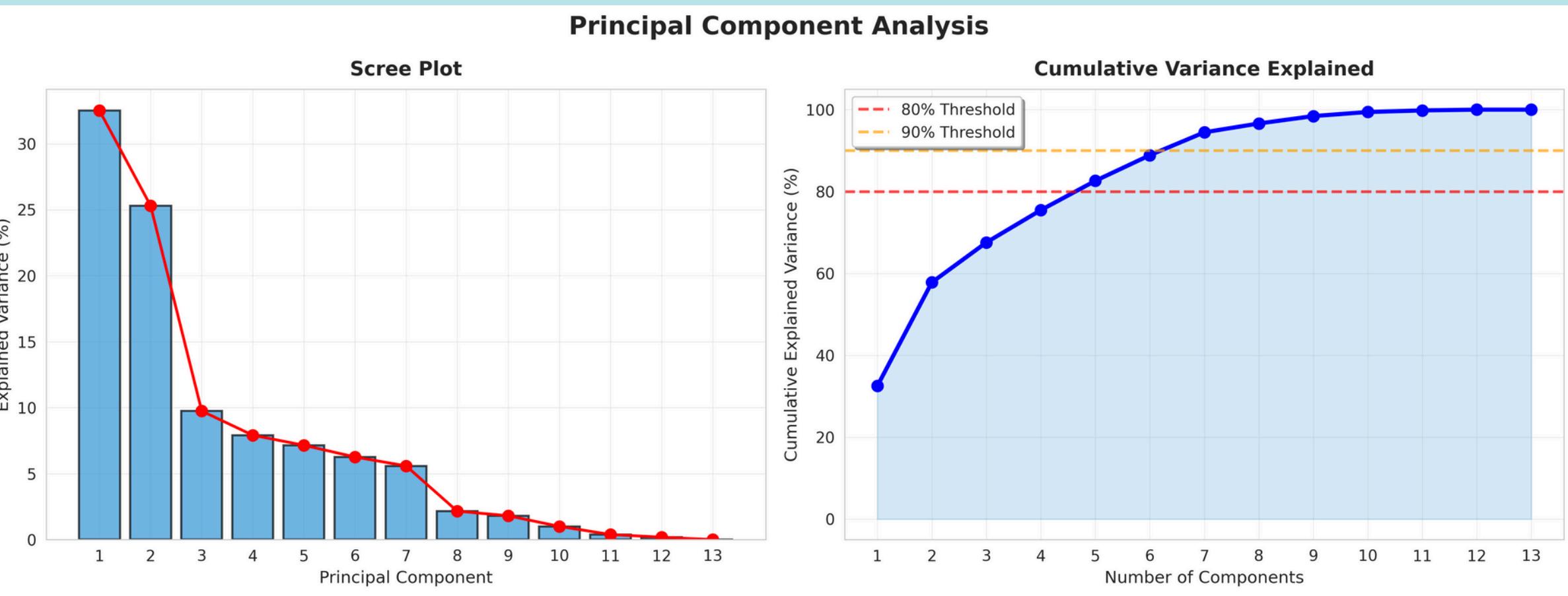


# DATA PART 2

# PRINCIPAL COMPONENT ANALYSIS



# FEATURE SEGMENTATION



**PAPER**

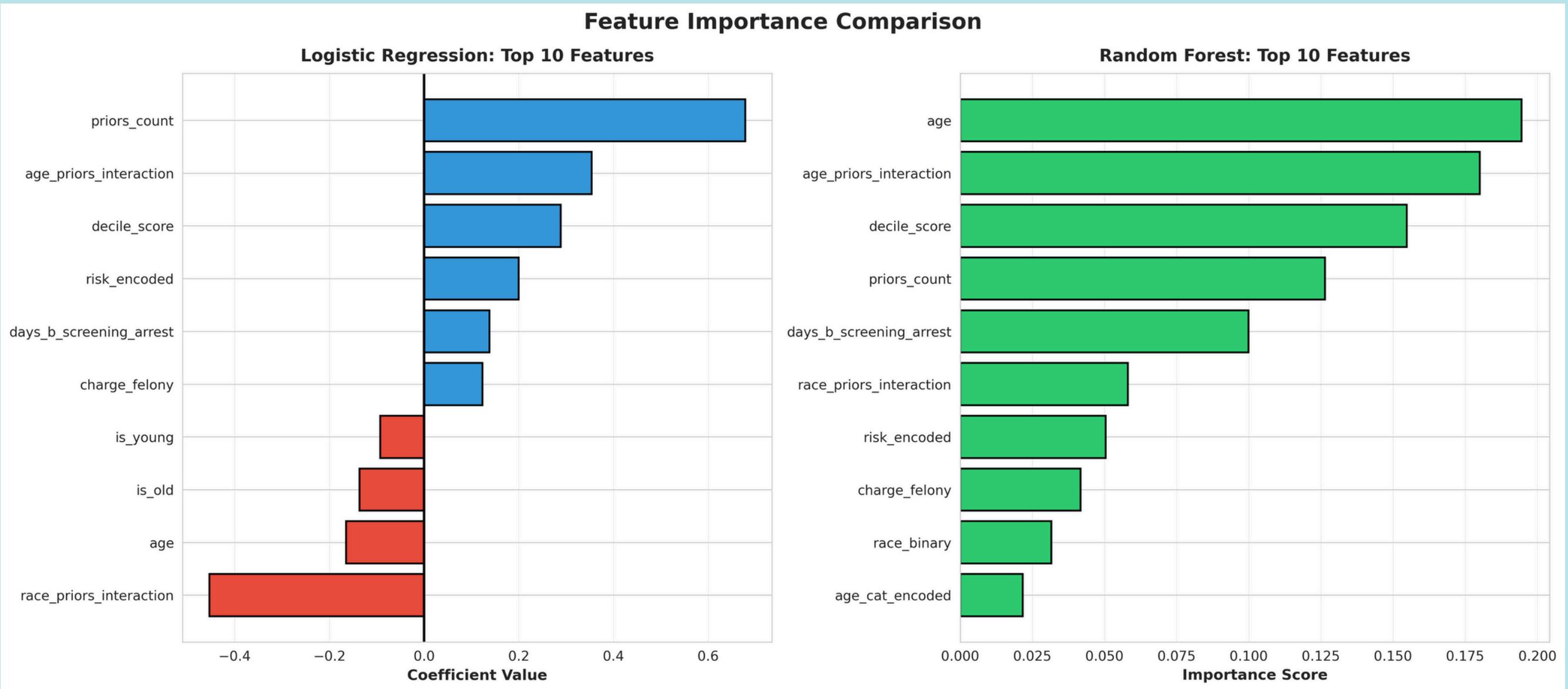
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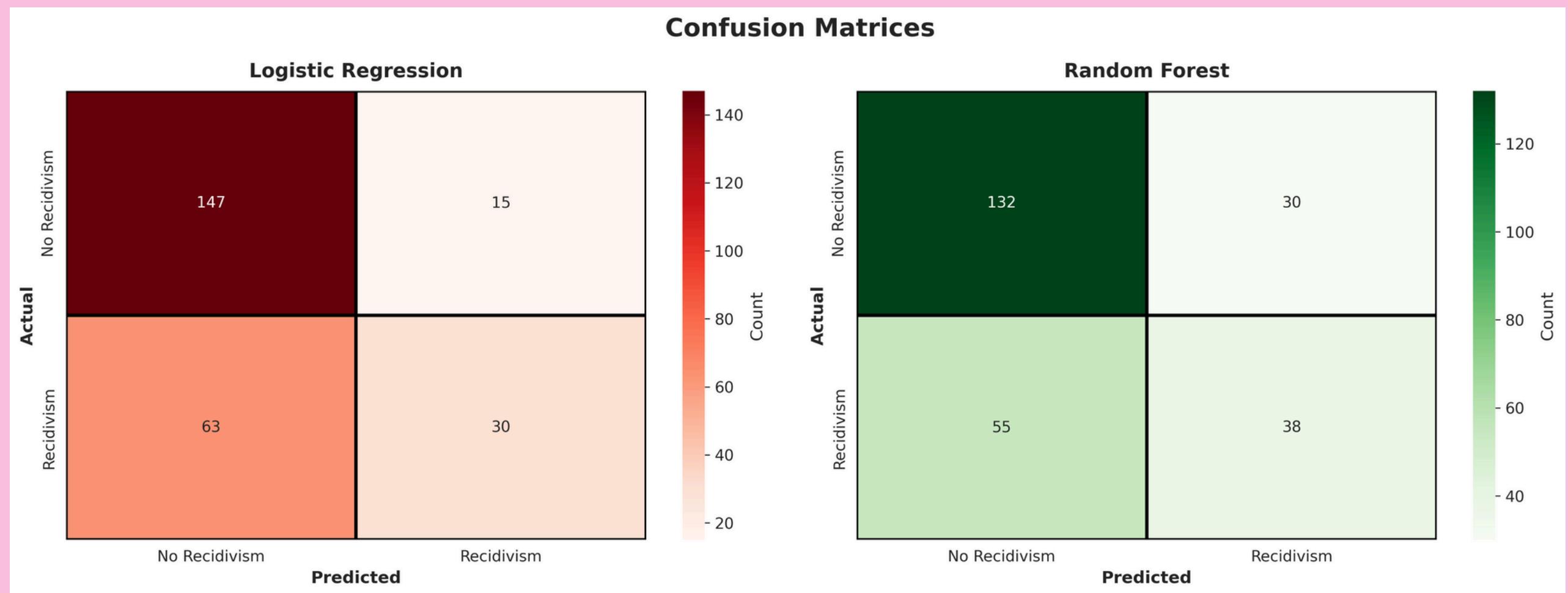
# LOGISTIC REGRESSION AND RANDOM FOREST



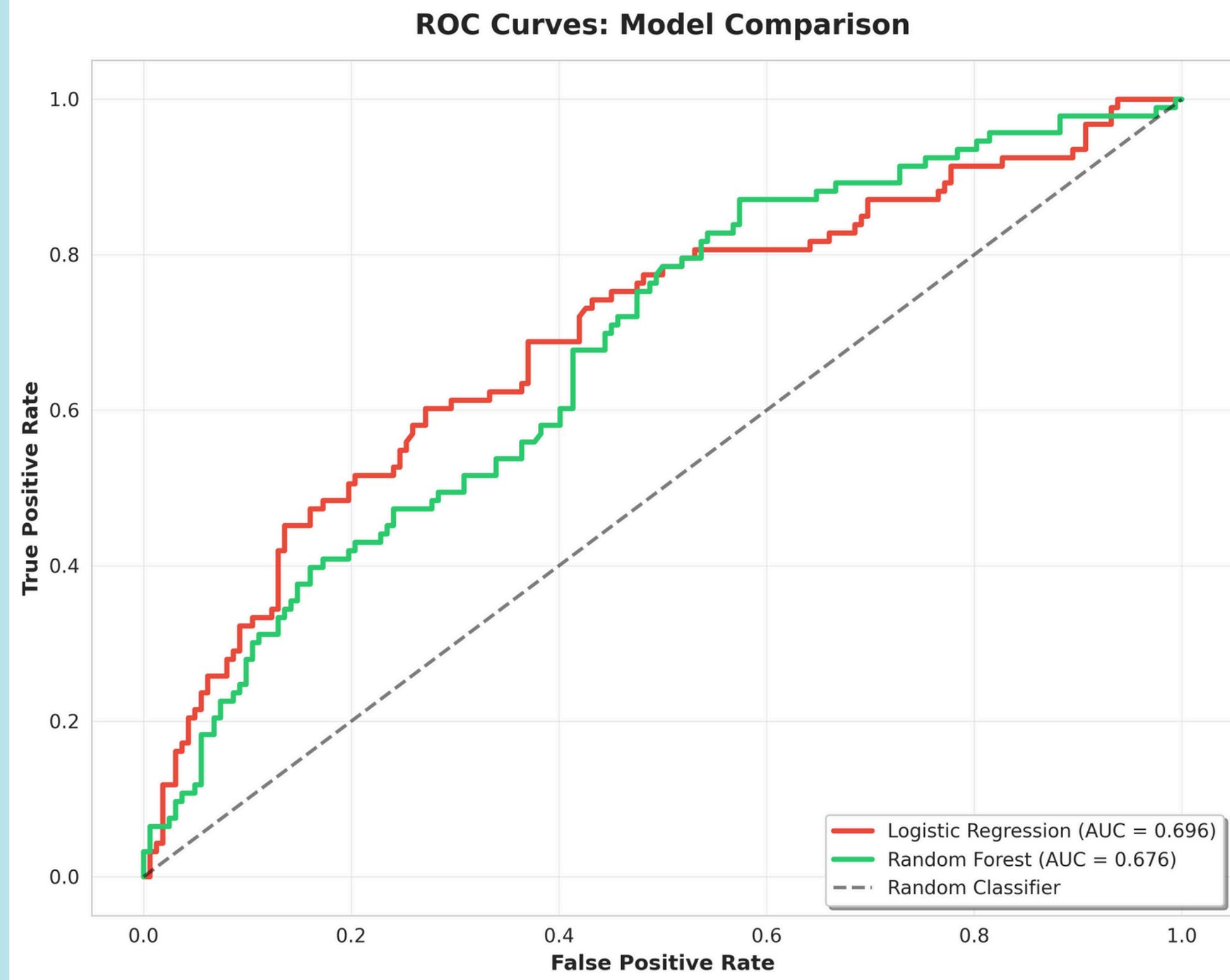
# FEATURE COMPARISON



# CONFUSION MATRICES



# ROC CURVES



**PAPER**

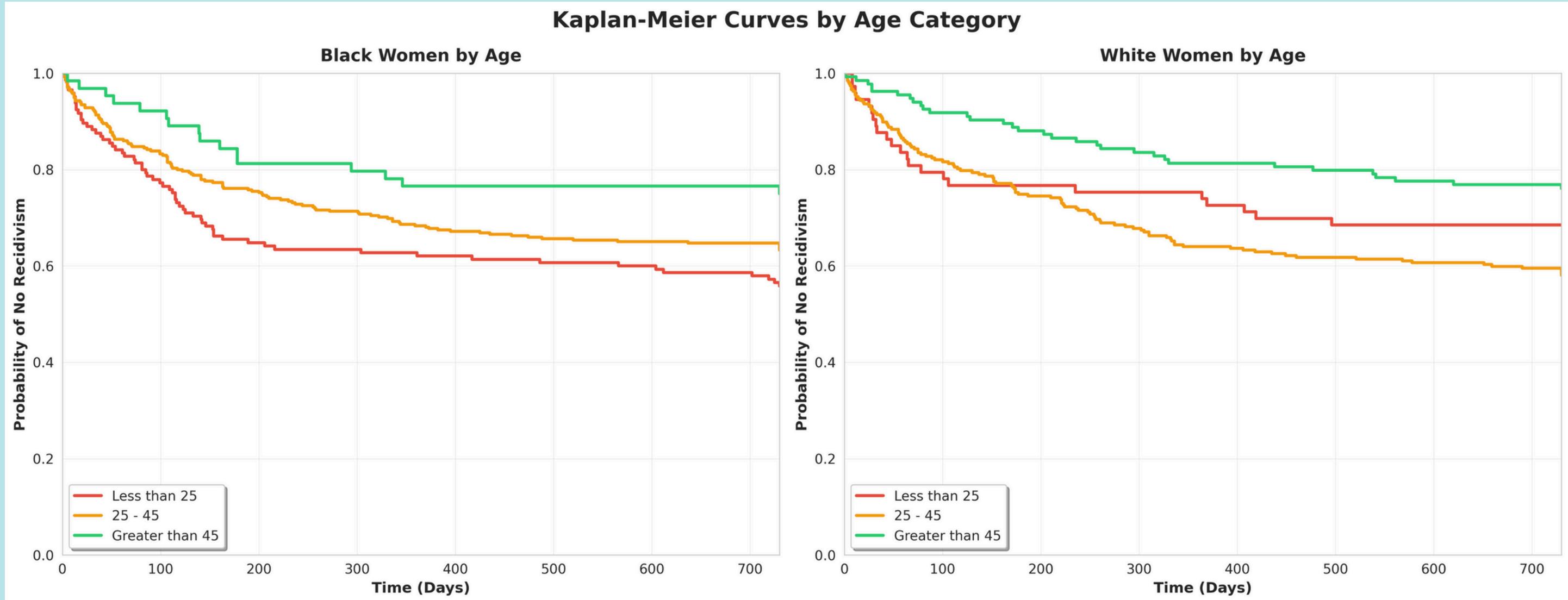
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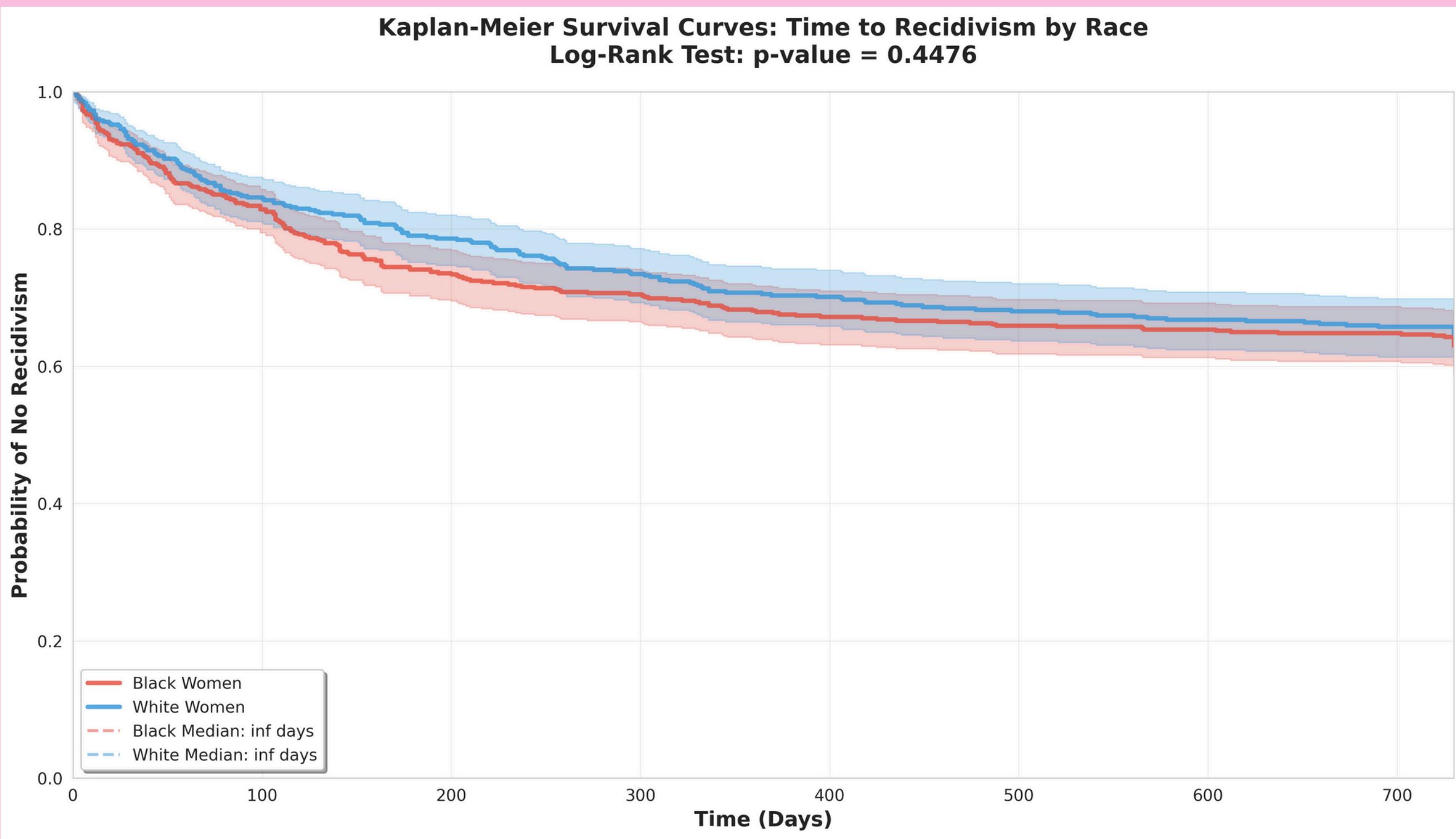
# KAPLAN MEIER SURVIVAL ANALYSIS



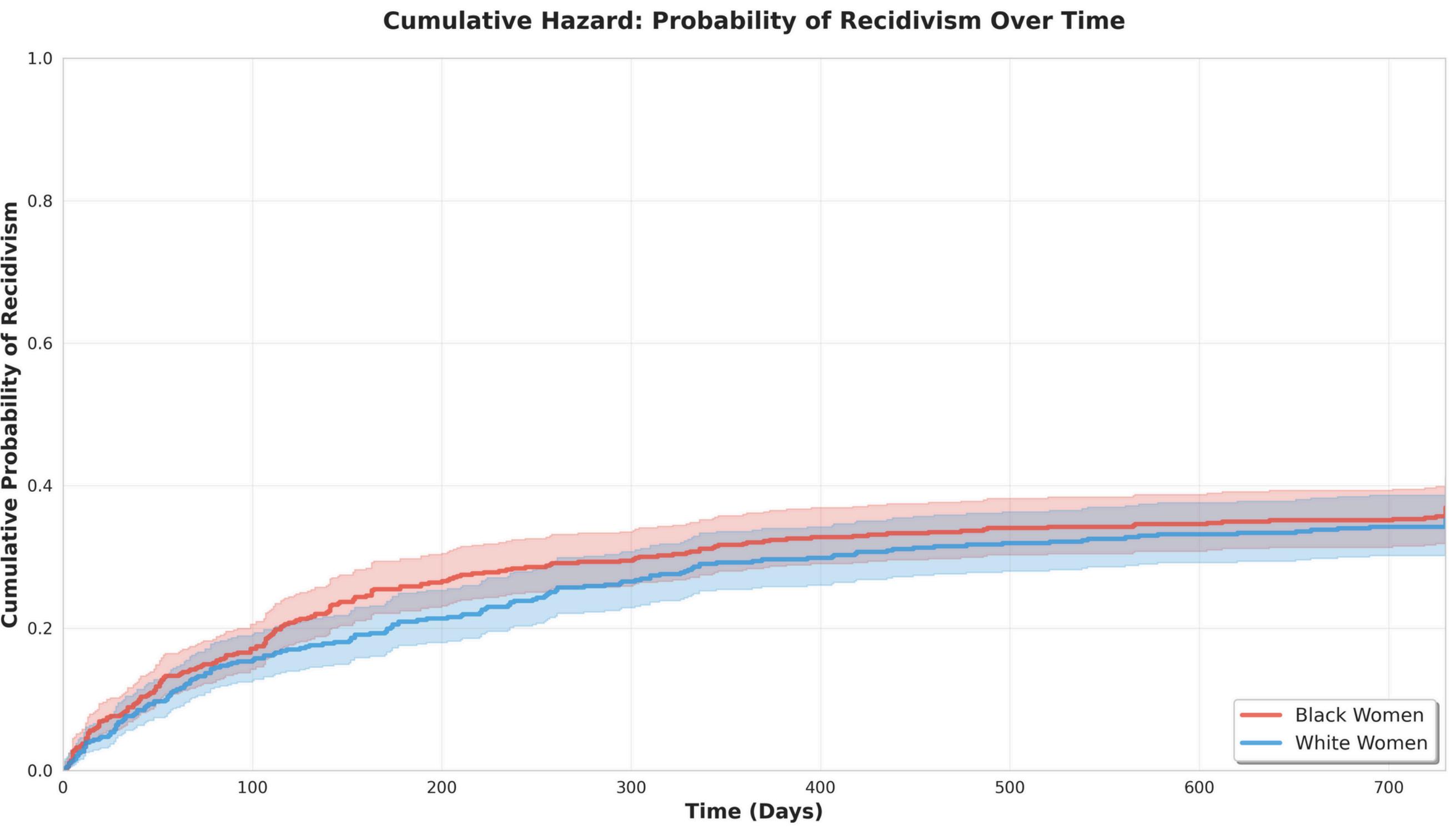
# AGE COMPARISON



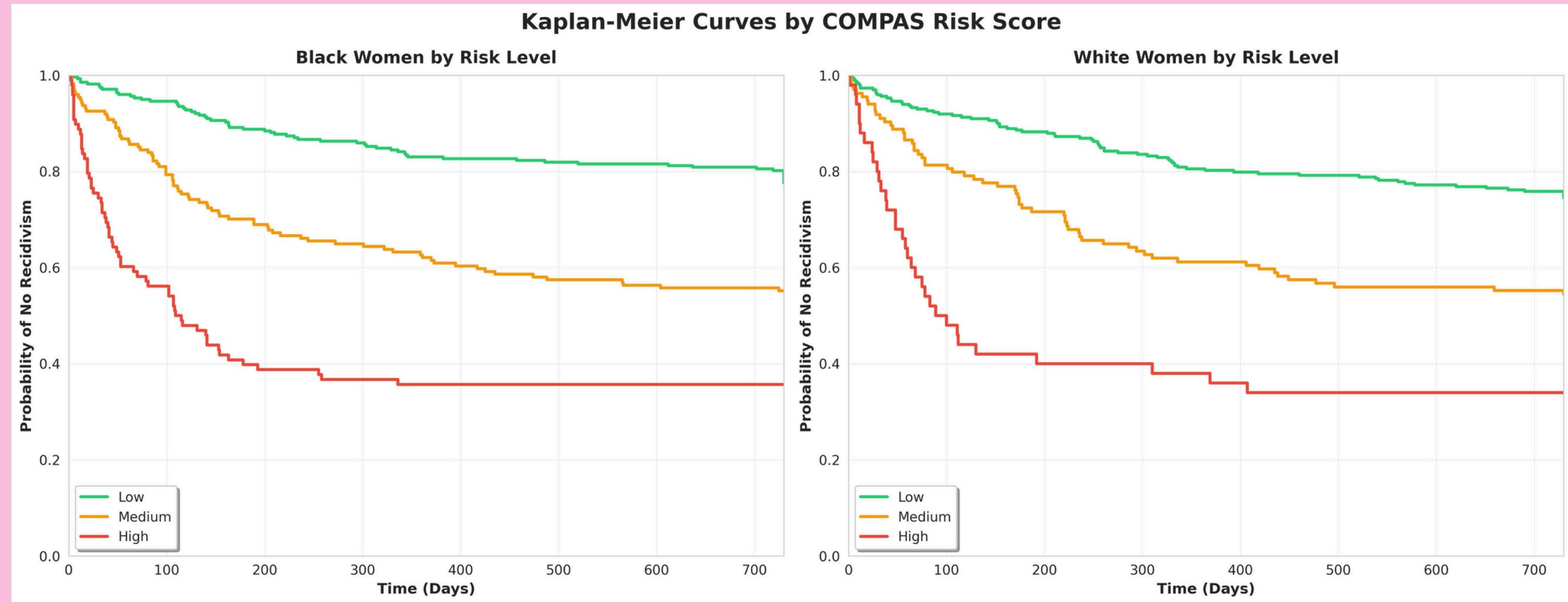
# RACE COMPARISON



# RECIDIVISM PROBABILITY



# COMPAS RISK SCORE





# THANK YOU