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import pandas as pd

import matplotlib.pyplot as plt

import seaborn as sns


# Load dataset

df = pd.read_csv("Medicaldataset.csv")


# Set style

sns.set(style="whitegrid")


# 1. Distribution of Age

plt.figure(figsize=(8, 5))

sns.histplot(df["Age"], kde=True, color="skyblue")

plt.title("Age Distribution")

plt.xlabel("Age")

plt.ylabel("Frequency")

plt.show()


# 2. Heart Rate vs Blood Pressure (Systolic)

plt.figure(figsize=(8, 5))

sns.scatterplot(data=df, x="Heart rate", y="Systolic blood pressure", hue="Result")

plt.title("Heart Rate vs Systolic BP")

plt.show()


# 3. Boxplot of Troponin by Result

plt.figure(figsize=(8, 5))

sns.boxplot(data=df, x="Result", y="Troponin", palette="pastel")

plt.title("Troponin Levels by Result")

plt.show()


# 4. Count plot of Result
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plt.figure(figsize=(6, 4))
sns.countplot(data=df, x="Result", palette="Set2")
plt.title("Count of Diagnosis Results")
plt.show()

# 5. Correlation Heatmap
plt.figure(figsize=(10, 6))
numeric_cols = df.select_dtypes(include=["float64", "int64"]).columns
corr = df[numeric_cols].corr()
sns.heatmap(corr, annot=True, cmap="coolwarm", fmt=".2f")
plt.title("Correlation Heatmap of Numerical Features")
plt.show()
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OUTPUT:





