```
[ ]
[ ]
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```
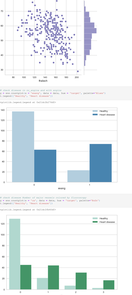
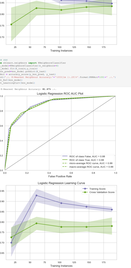

```
# Plot with marginal distributions
ggplot(data, aes(x = age, y = cholesterol)) +
  geom_point(alpha = 0.5) +
  geom_rug(sides = "bl") +
  theme_minimal()
```

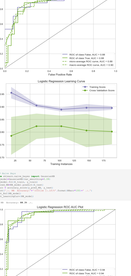



```
# Plot with marginal distributions by sex
ggplot(data, aes(x = age, y = cholesterol, color = sex)) +
  geom_point(alpha = 0.5) +
  geom_rug(sides = "bl") +
  theme_minimal()
```

```
# Create a boxplot of age by chest_pain_type
ggplot(data, aes(x = chest_pain_type, y = age, fill = chest_pain_type)) +
  geom_boxplot() +
  theme_minimal()
```




```
# Create a violin plot of age by chest_pain_type
ggplot(data, aes(x = chest_pain_type, y = age, fill = chest_pain_type)) +
  geom_violin() +
  theme_minimal()
```




```
# Create a boxplot of age by sex
ggplot(data, aes(x = sex, y = age, fill = sex)) +
  geom_boxplot() +
  theme_minimal()
```

```
# Create a violin plot of age by sex
ggplot(data, aes(x = sex, y = age, fill = sex)) +
  geom_violin() +
  theme_minimal()
```

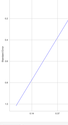
```
# ==========================================
# ==========================================
# ==========================================
```

PDF for feature "num_major_vessels"

Number of unique values: 4

```
[INFO 2025-07-01 00:00:00] [PDFCDF]
[TRAN_DATA] [PDF]
[DEBUG] [PDF] [PDF_FOR_FEATURE] [num_major_vessels] [data_/home/codeuser/data/data] [data/output/data
```

```
Study ID      OR    95-% CI CRR          Weight of study
Ramesh(2019)  0.50  [0.25; 1.00] 0.50     24.7
Sengupta(2017)  1.00  [0.50; 2.00] 1.00     24.7
Tabassum(2017)  2.00  [0.50; 8.00] 2.00      6.2
Yasodha(2016)  0.50  [0.25; 1.00] 0.50     24.7
Random-effects model  0.79  [0.44; 1.42] 0.79    100.0

Heterogeneity: I^2 = 0.0%, p = 0.94
Test for overall effect: z = -0.79 (p = 0.43)
Test for subgroup differences: Q = 0.00, df = 1, p = 1.00
Random-effects model: Q = 0.00, df = 3, p = 1.00
Fixed-effects model: Q = 0.00, df = 3, p = 1.00
Random-effects model: Q = 0.00, df = 3, p = 1.00
Fixed-effects model: Q = 0.00, df = 3, p = 1.00
Random-effects model: Z=-0.79(95%-CI: 0.44; 1.42)
Fixed-effects model: Z=-0.79(95%-CI: 0.44; 1.42)
```




```
R: 4.0.2
```

```
R: 4.0.2
```