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Statistical Methods and ML models

Sprint2_Test_Practice2.1.ipynb U | Sprint2_Test_Practice3.1.ipynb U

portal code > day2 > practice > Sprint2_Test_Practice2 > Sprint2_Test_Practice2.1.ipynb > # Simple Random Sampling

Generate | Code | Markdown | Run All | Restart | Clear All Outputs | Jupyter Variables | Outline | .venv (Python 3.12.10)

[5] 0.0s Python

```
# Simple Random Sampling
sample = df[col].sample(n=50, random_state=42)
# Plot settings
sns.set(style="whitegrid")
plt.figure(figsize=(20, 14))
# Histogram with kde for Population
plt.subplot(1, 2, 1)
sns.histplot(
    population,
    bins=20,
    kde=True,
    color="blue",
    edgecolor="black",
    stat="density",
    alpha=0.6,
)
plt.title("Population Delivery Times", fontsize=14)
plt.xlabel("Delivery_Time_Hours")
plt.ylabel("Density")

# Histogram with kde for Sample
plt.subplot(1, 2, 2)
sns.histplot(
    sample,
    bins=20,
    kde=True,
    color="orange",
    edgecolor="black",
    stat="density",
    alpha=0.6,
)
plt.title("Sample Delivery Times", fontsize=14)
plt.xlabel("Delivery Time (Hours)")
plt.ylabel("Density")
plt.legend(["Sample"], loc="upper right")

plt.tight_layout()
plt.show()
```

[18] 0.4s Python

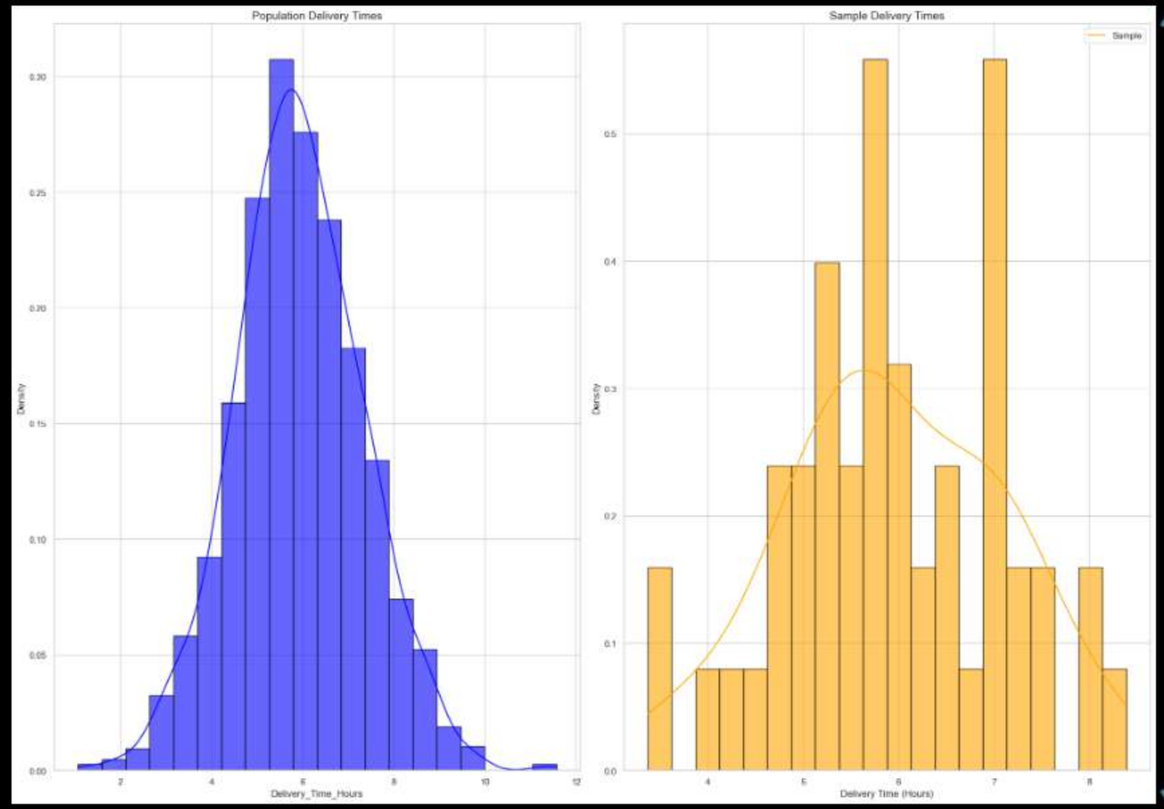
portal code > day2 > practice > Sprint2_Test_Practice2 > Sprint2_Test_Practice2.1.ipynb > # Simple Random Sampling

Generate | Code | Markdown | Run All | Restart | Clear All Outputs | Jupyter Variables | Outline | .venv (Python 3.12.10)

```
plt.xlabel("Delivery Time (Hours)")
plt.ylabel("Density")
plt.legend(["Sample"], loc="upper right")

plt.tight_layout()
plt.show()
```

[18] 0.4s Python



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