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Sprint2\_Test\_Practice2.1.ipynb X Sprint2\_Test\_Practice3.1.ipynb X

portal code > day2 > practice > Sprint2\_Test\_Practice2 > Sprint2\_Test\_Practice2.1.ipynb > # Simple Random Sampling

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[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

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[18] ✓ 0.4s Python

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

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

... Population Delivery Times

A histogram titled "Population Delivery Times" showing the density distribution of delivery times. The x-axis is labeled "Delivery\_Time\_Hours" and ranges from 7 to 12. The y-axis is labeled "Density" and ranges from 0.00 to 0.30. The histogram bars are blue, and a smooth blue KDE curve is overlaid. The distribution is unimodal and centered around 6 hours.

Sample Delivery Times

A histogram titled "Sample Delivery Times" showing the density distribution of delivery times. The x-axis is labeled "Delivery Time (Hours)" and ranges from 4 to 8. The y-axis is labeled "Density" and ranges from 0.0 to 0.5. The histogram bars are orange, and a smooth orange KDE curve is overlaid. The distribution is unimodal and centered around 6 hours.

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