02_dashboard

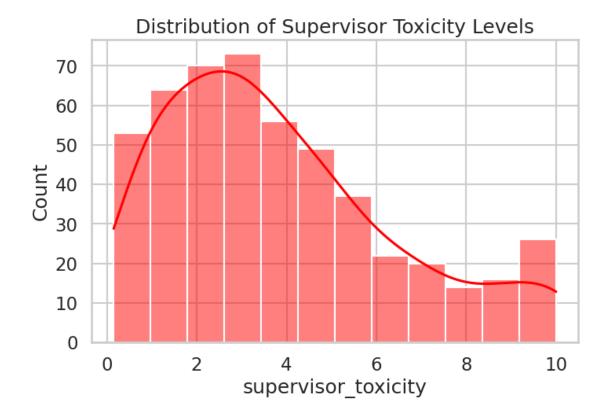
October 25, 2025

```
[1]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns

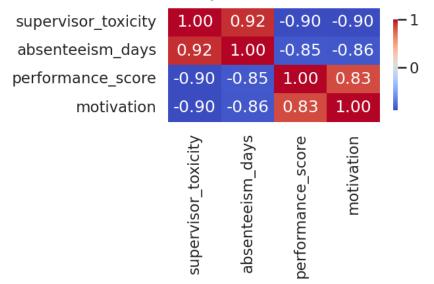
# Cargar datos
df = pd.read_csv("../data/leadership_toxicity_kpis.csv")

# Estilo visual
sns.set_theme(style="whitegrid", context="talk")

# Gráfico 1: distribución de toxicidad
plt.figure(figsize=(8,5))
sns.histplot(df["supervisor_toxicity"], kde=True, color="red")
plt.title("Distribution of Supervisor Toxicity Levels")
plt.savefig("../reports/toxicity_distribution.png")
plt.show()
```



Correlation Matrix: Toxicity, Absenteeism, Performance, Motivation



[]:

0.0.1 Ethical Interpretation

This dashboard suggests that toxic supervision correlates strongly with: - Higher absenteeism rates

- Lower performance
- Reduced motivation

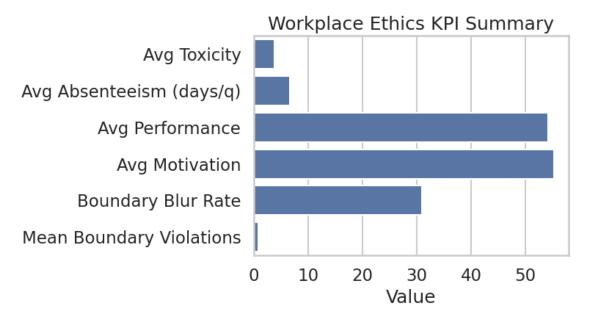
Ethical auditing of workplace performance means **translating data into accountability**. Numbers alone do not condemn — they **reveal systemic patterns** that leadership must address.

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[5]: # KPI summary (visual) y guardado en /reports
import numpy as np

kpis = {
    "Avg Toxicity": df["supervisor_toxicity"].mean(),
    "Avg Absenteeism (days/q)": df["absenteeism_days"].mean(),
    "Avg Performance": df["performance_score"].mean(),
    "Avg Motivation": df["motivation"].mean(),
    "Boundary Blur Rate": df["boundary_blur_flag"].mean() * 100, # %
    "Mean Boundary Violations": df["boundary_violations"].mean(),
}
kpi_s = pd.Series(kpis).round(2)

plt.figure(figsize=(8,4.5))
sns.barplot(x=kpi_s.values, y=kpi_s.index, orient="h")
plt.title("Workplace Ethics KPI Summary")
plt.xlabel("Value")
```

```
plt.ylabel("")
plt.tight_layout()
plt.savefig("../reports/kpi_summary.png", dpi=160, bbox_inches="tight")
plt.show()
kpi_s
```



[5]:	Avg Toxicity	3.83
	Avg Absenteeism (days/q)	6.67
	Avg Performance	54.21
	Avg Motivation	55.22
	Boundary Blur Rate	31.00
	Mean Boundary Violations	0.87
	dtvpe: float64	