

# Occupancy Detection

with Logistic Regression



# Occupancy Detection



0.9923



0.9931



0.9936



0.9885



0.9801



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0.9801



The background image is a dark, low-key photograph of a modern conference room. It features a long table, several ergonomic chairs, and large floor-to-ceiling windows that offer a view of a cityscape. The lighting is very low, creating a moody and professional atmosphere. The text is overlaid in the center of the image.

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# Occupancy Detection

with  
*Logistic Regression*

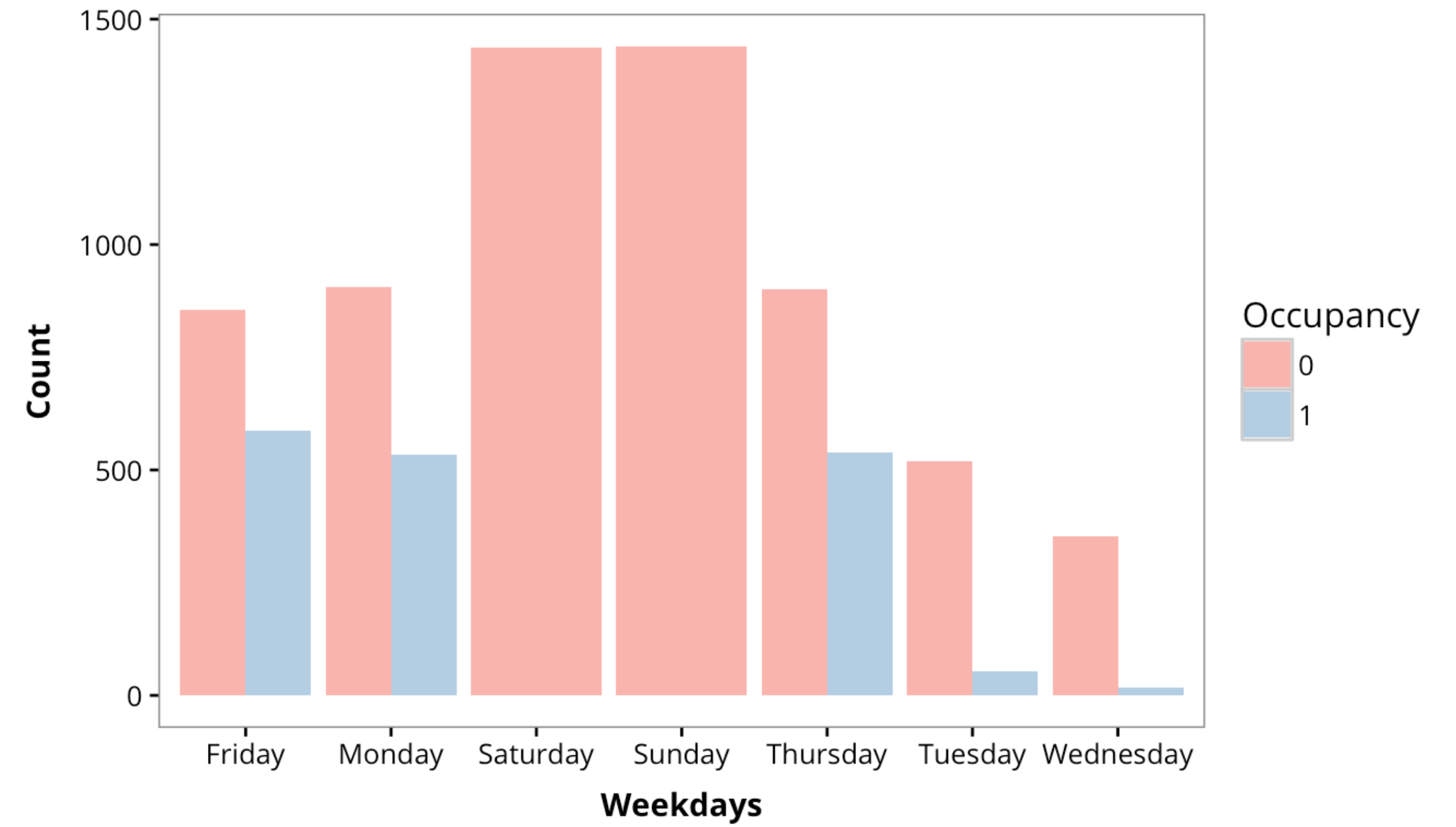
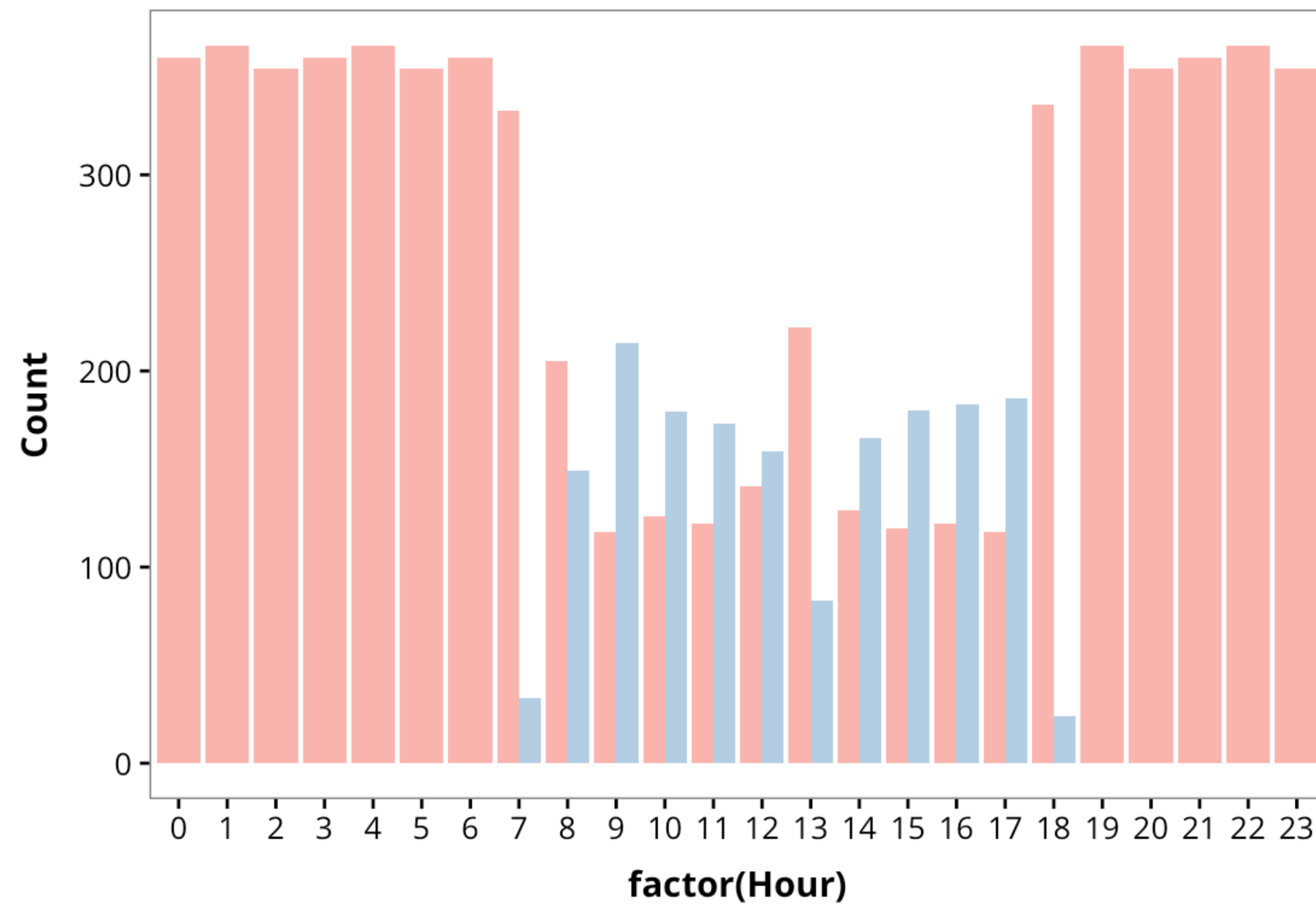
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20160805

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# Insights From EDA



# **Feature Engineering**

## **Weekend**

Saturday & Sunday

## **Work-time**

Working Time : 0700 to 1800

# Outlier & Leverage Detection

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**Studentized Residual**

for

*Linear Regression*

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t-Distribution

**Standardized Residual**

for

*Logistic Regression*

Normal Distribution

# Result

Model	Accuracy
Vanilla Model	0.9749795
With Feature Engineering	0.9835931
After Outlier Detection	0.994155



**Question?**