

# Data Drift



# The MLOps Personas



ML  
Engineer



ML  
Researcher



Data  
Scientist



Data  
Engineer



Software  
Engineer

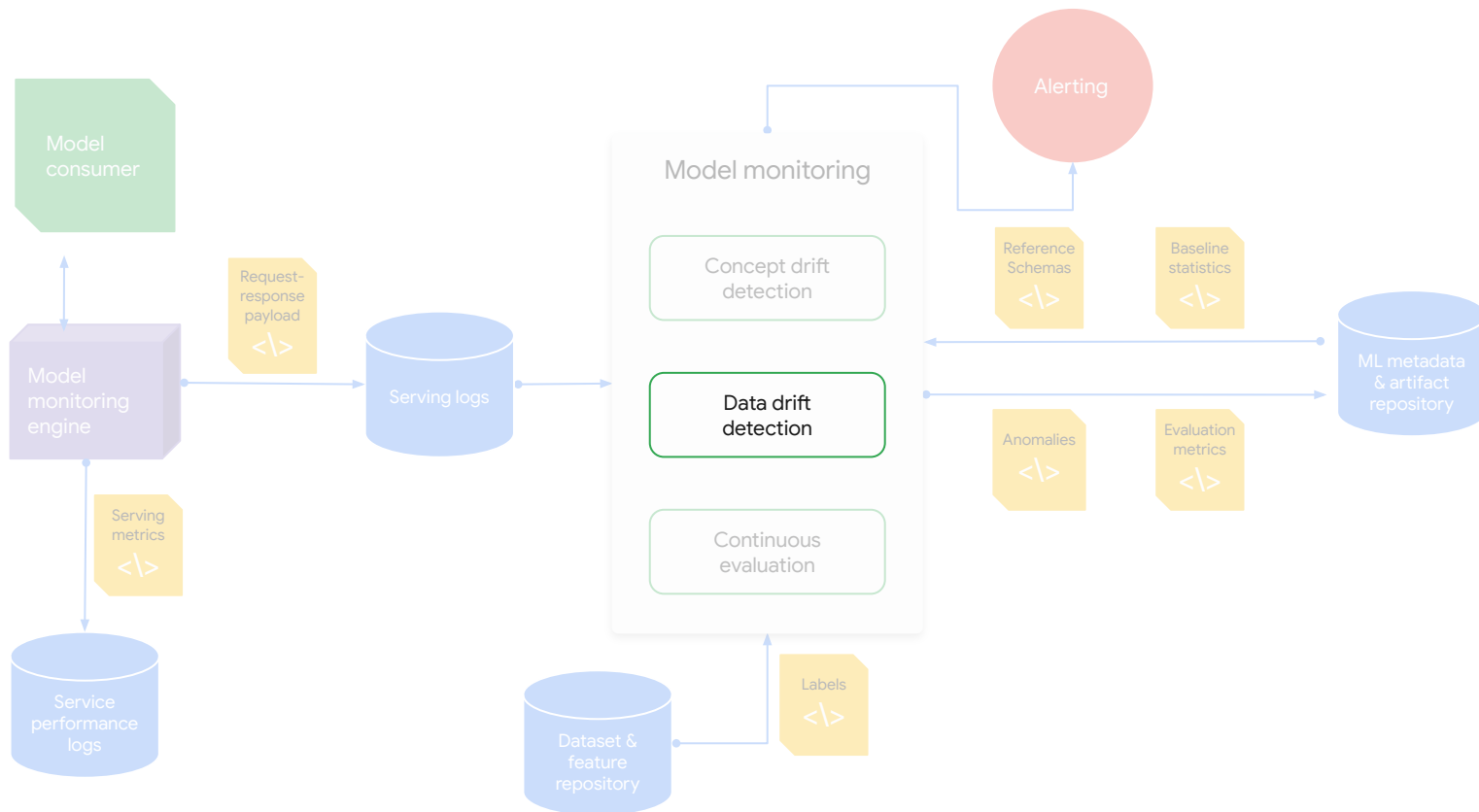


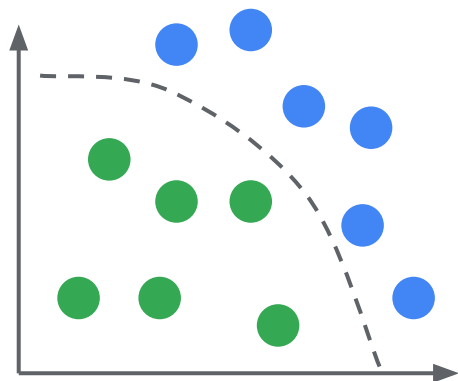
DevOps



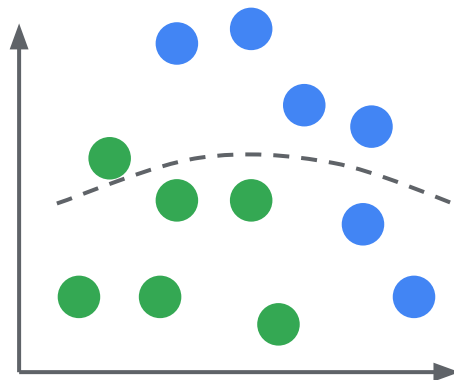
Business  
Analyst

# MLOps: Continuous Monitoring

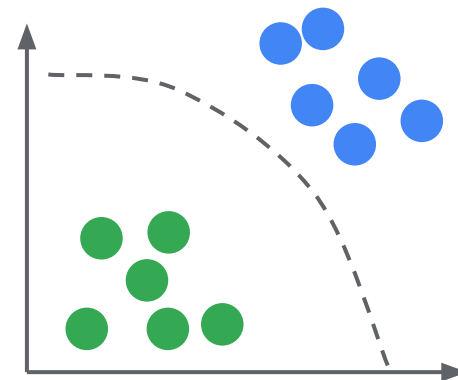




Decision boundary fit to  
training data

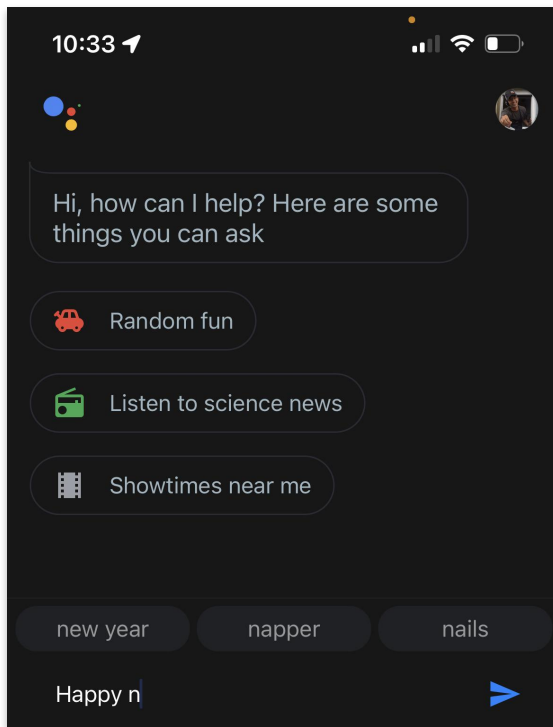


Concept drift,  
detrimental performance impact

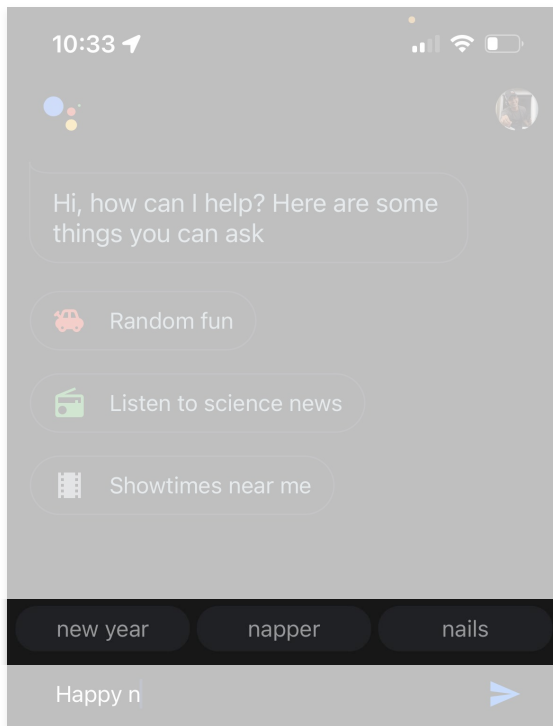


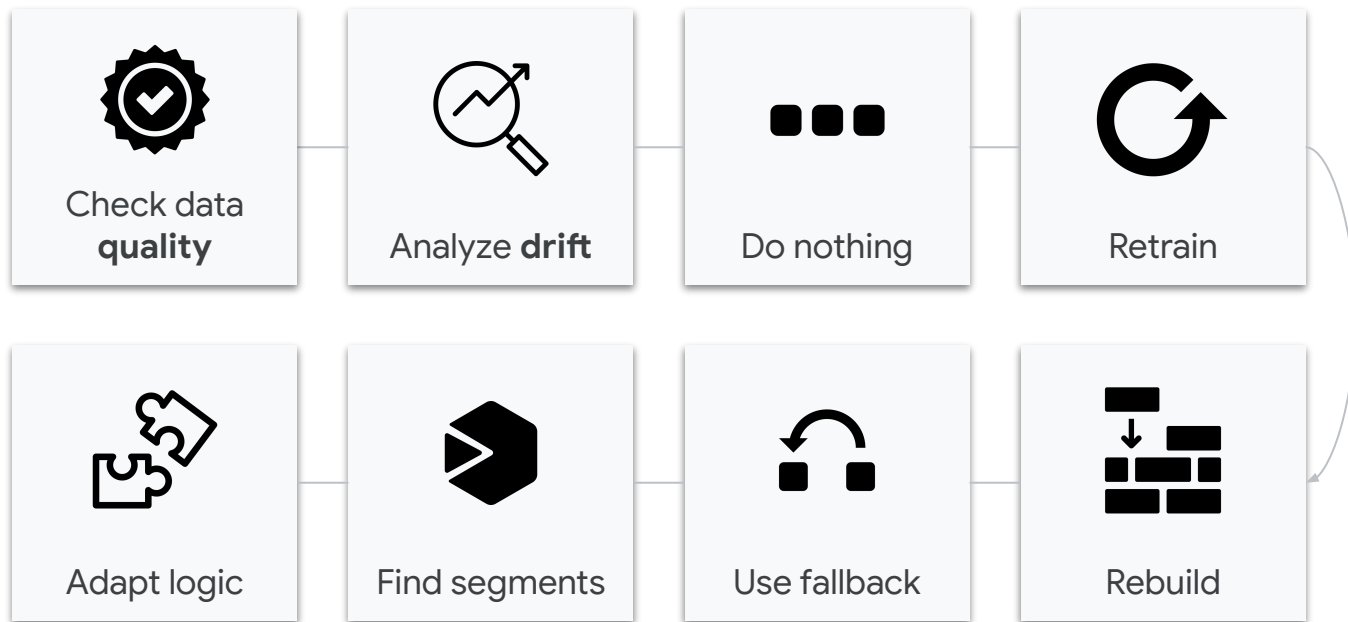
Data (virtual) drift,  
where input change

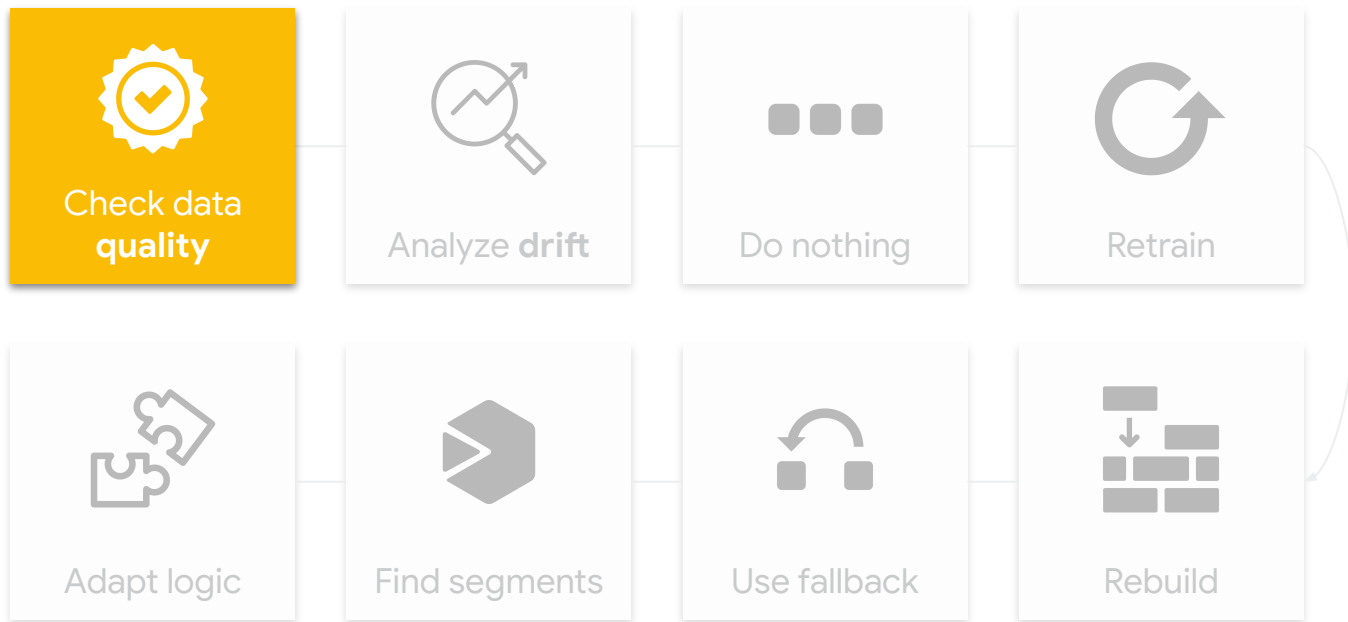
# GBoard Example



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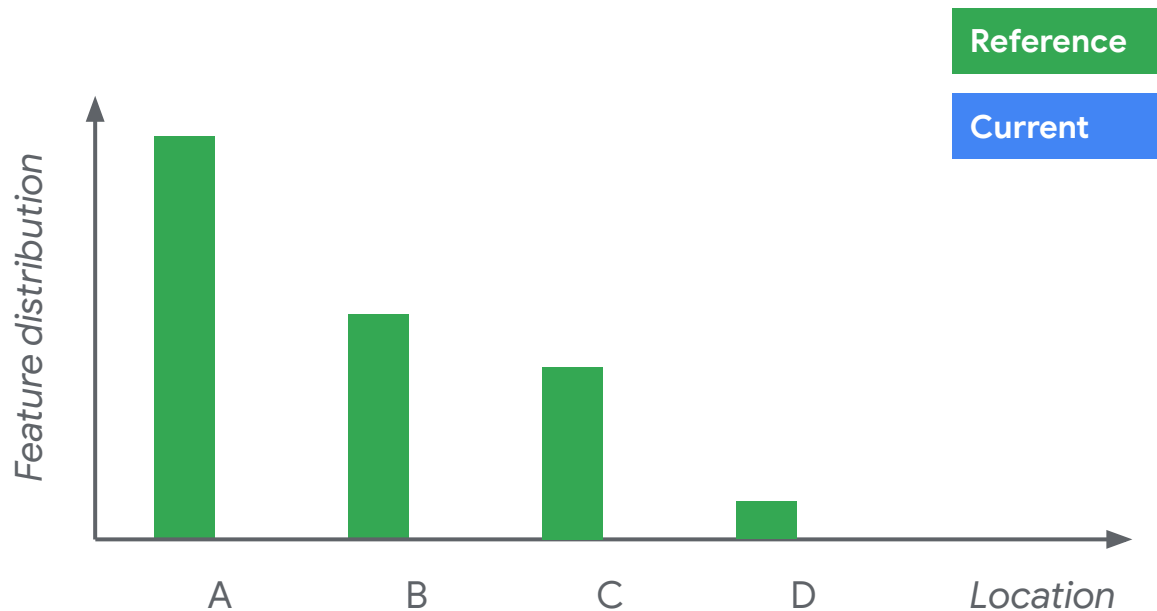




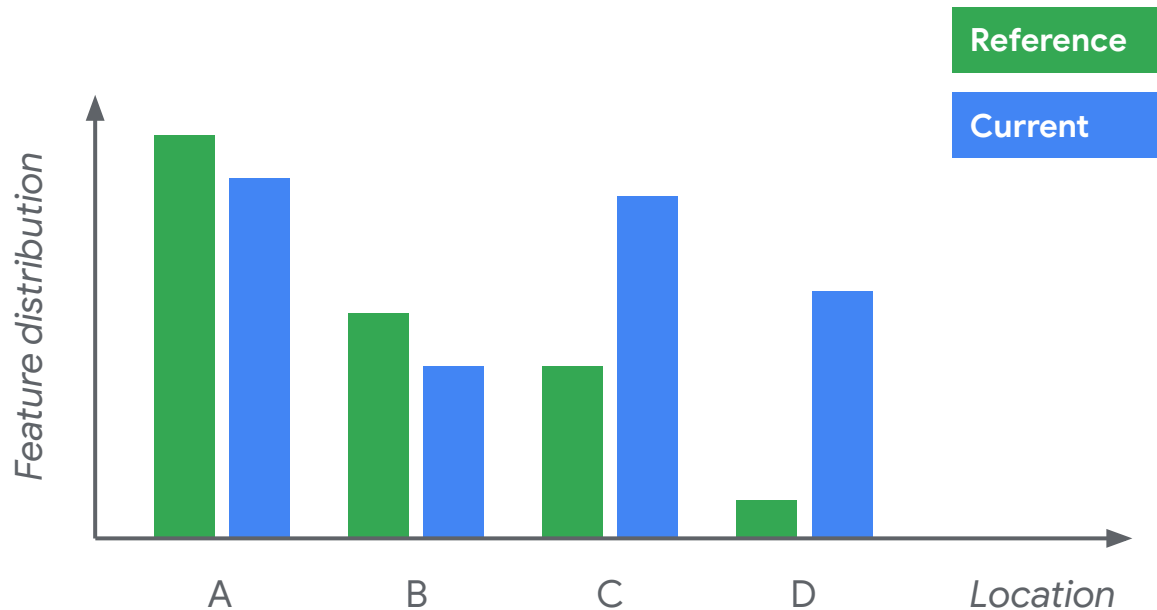




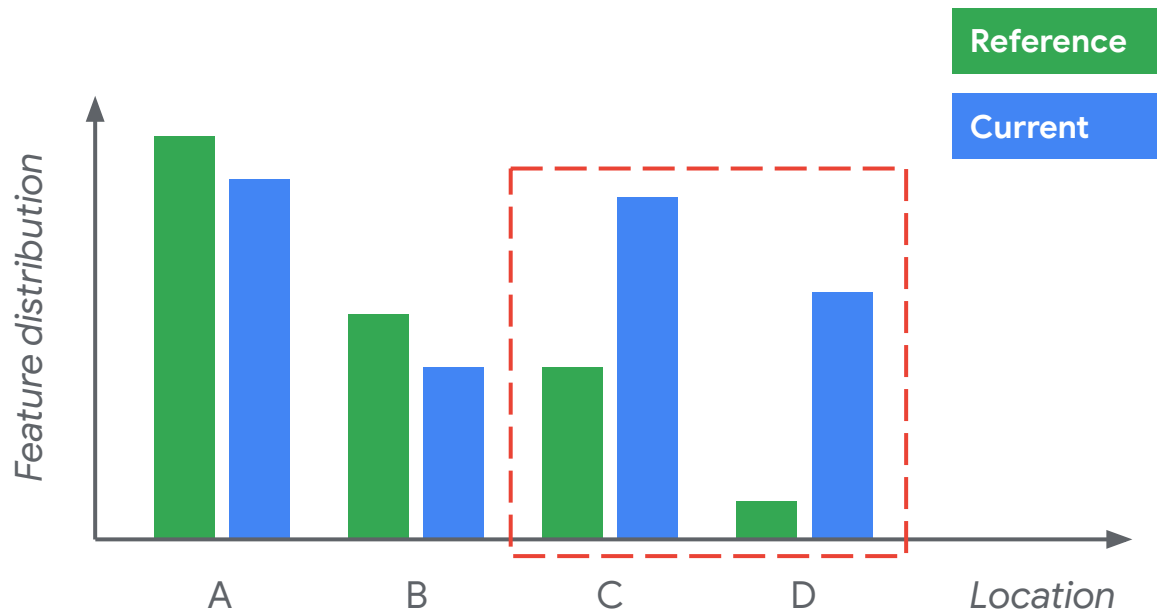
# Reference vs. Current Feature Distribution



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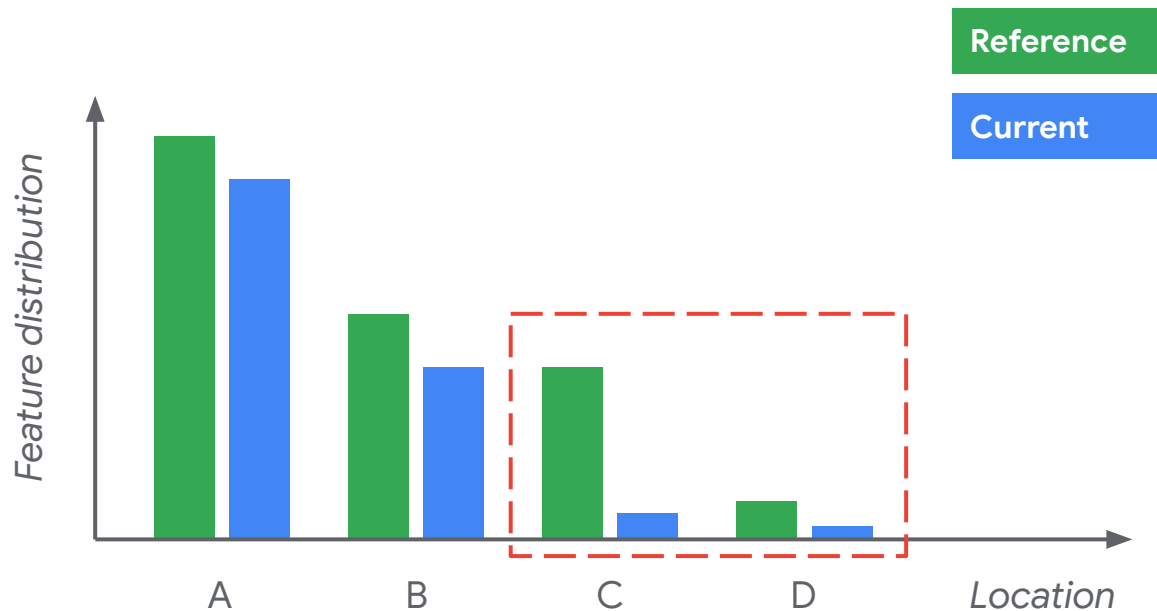


# Reference vs. Current Feature Distribution



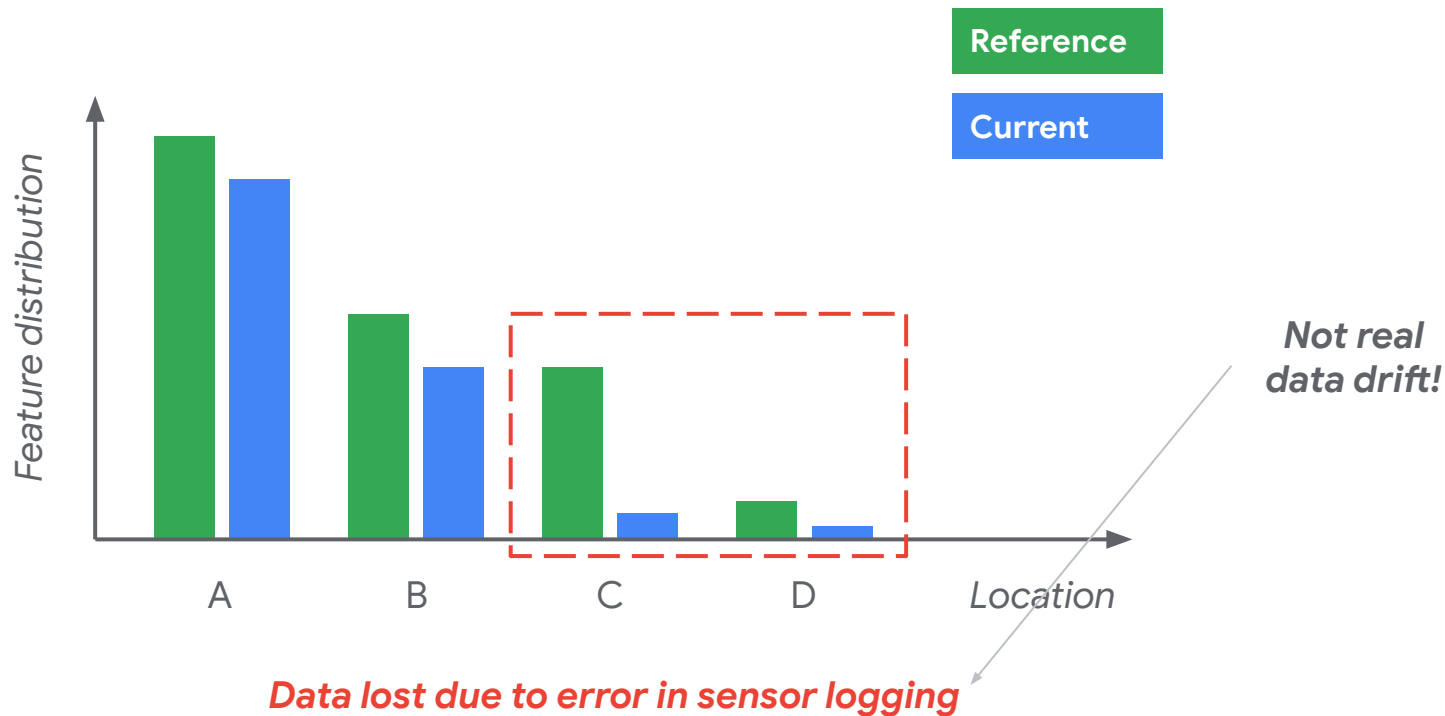
*New locations became more present in data*

# Reference vs. Current Feature Distribution

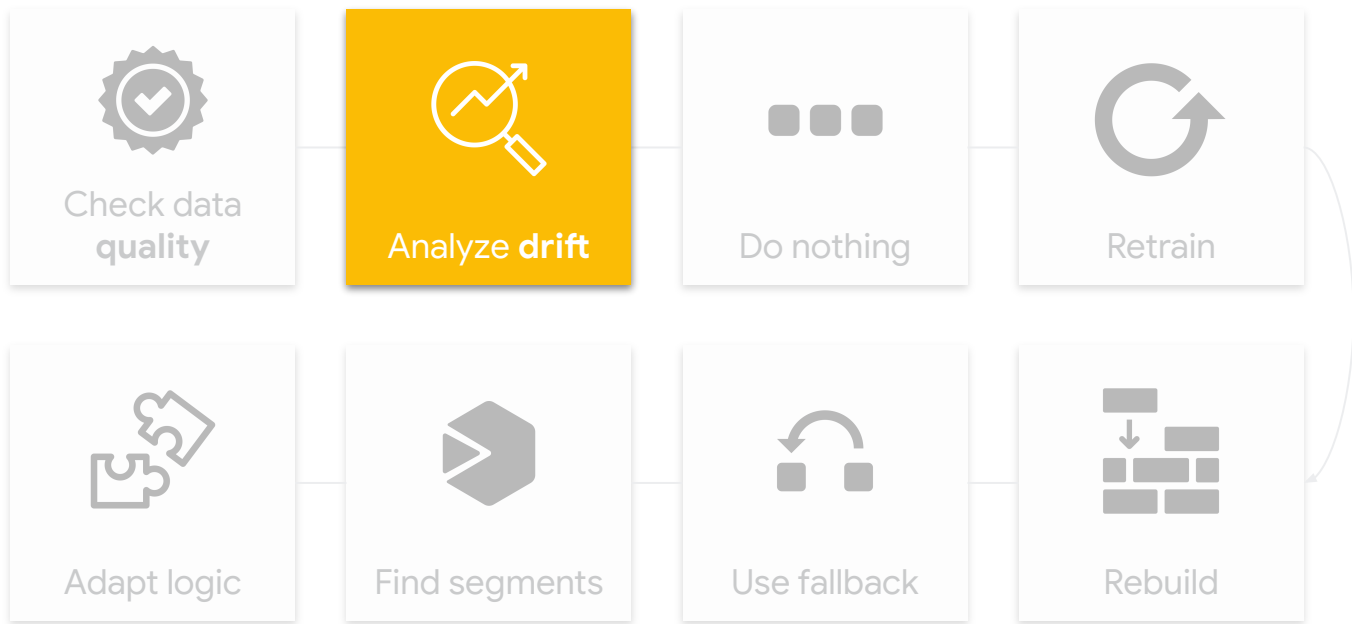


*Data lost due to error in sensor logging*

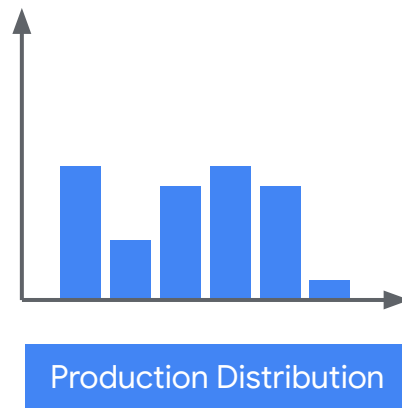
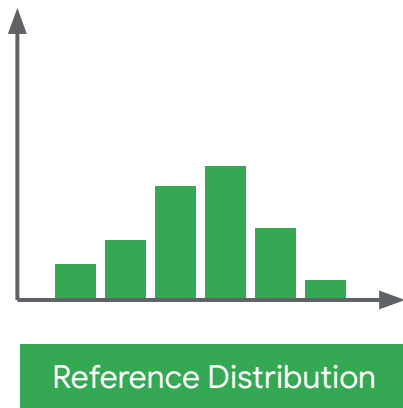
# Reference vs. Current Feature Distribution



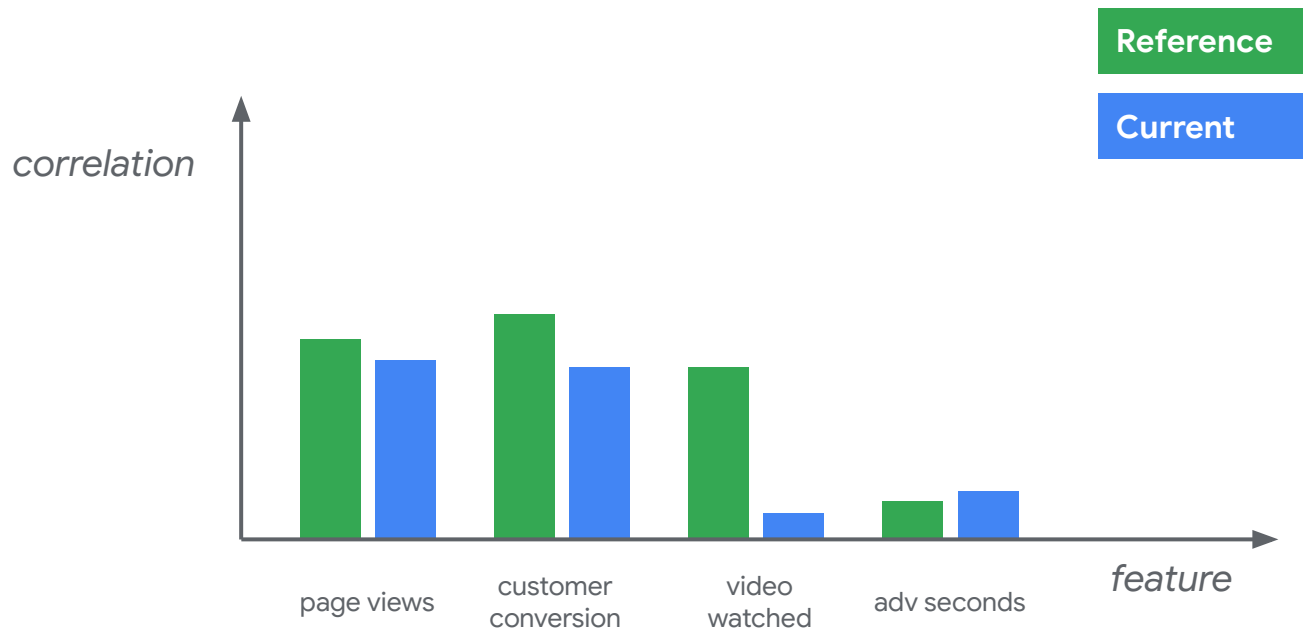
# Data Drift



# Analyze the Data

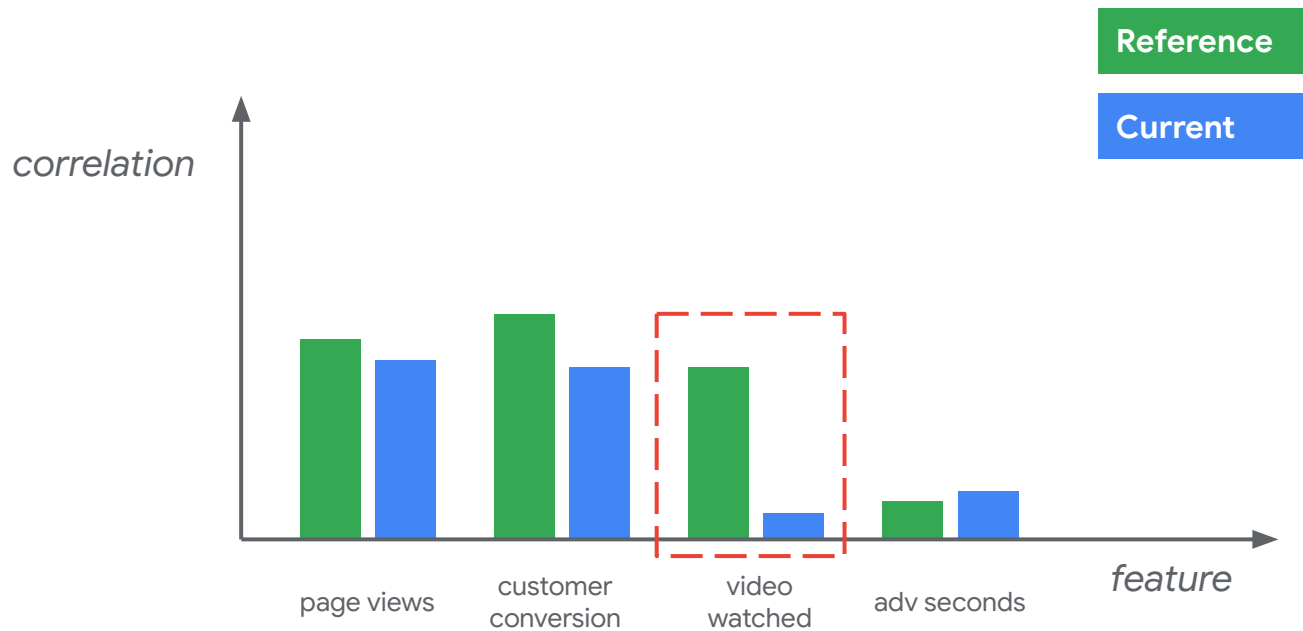


# Analyze the Data





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**Significant difference in correlation strength**

