



# Azure Cloud Demand & Resource Optimization Dashboard



MonthYear

All

Region

All

Service

All

Season

All

**629M**

Total Compute Usage

**724M**

Total Compute Peak Usage

**50M**

Total Compute VM

**89.69**

Avg Cloud Demand Index

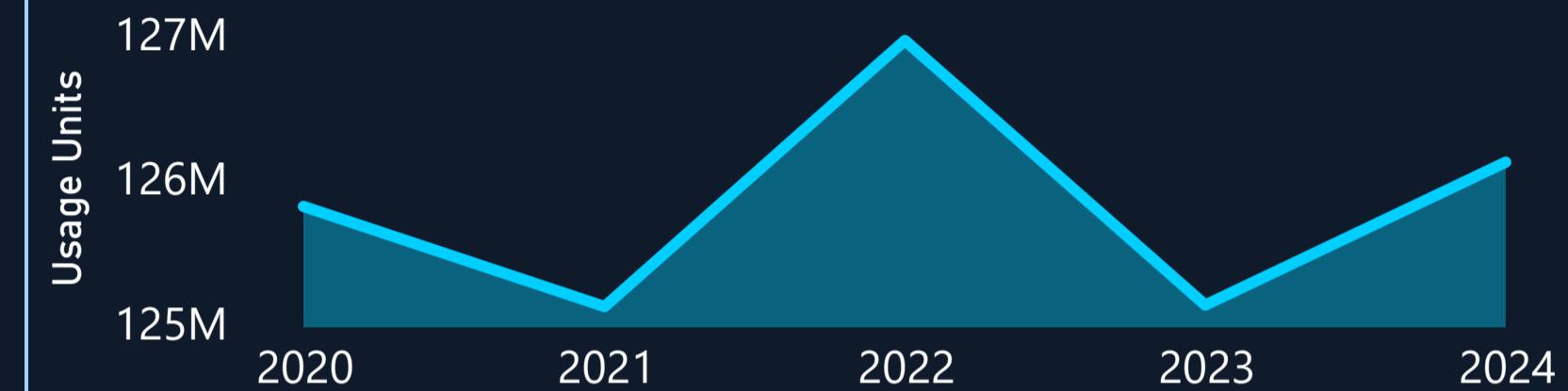
**5505**

Total Storage Downtime

**4M**

Total Storage TB

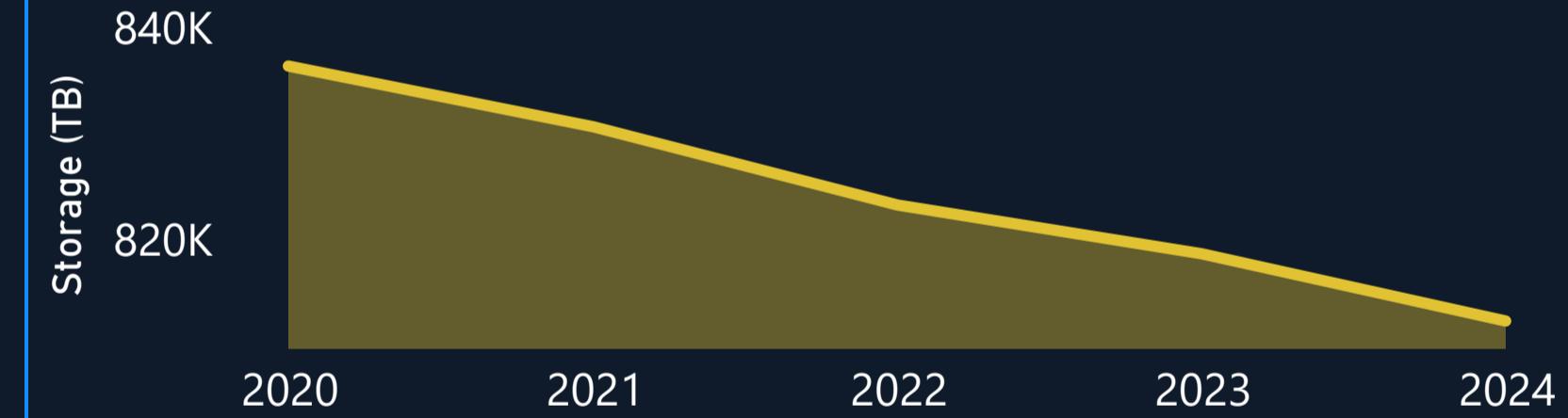
Compute Usage Over Time



Compute Usage by Region



Storage Capacity (TB) Trend



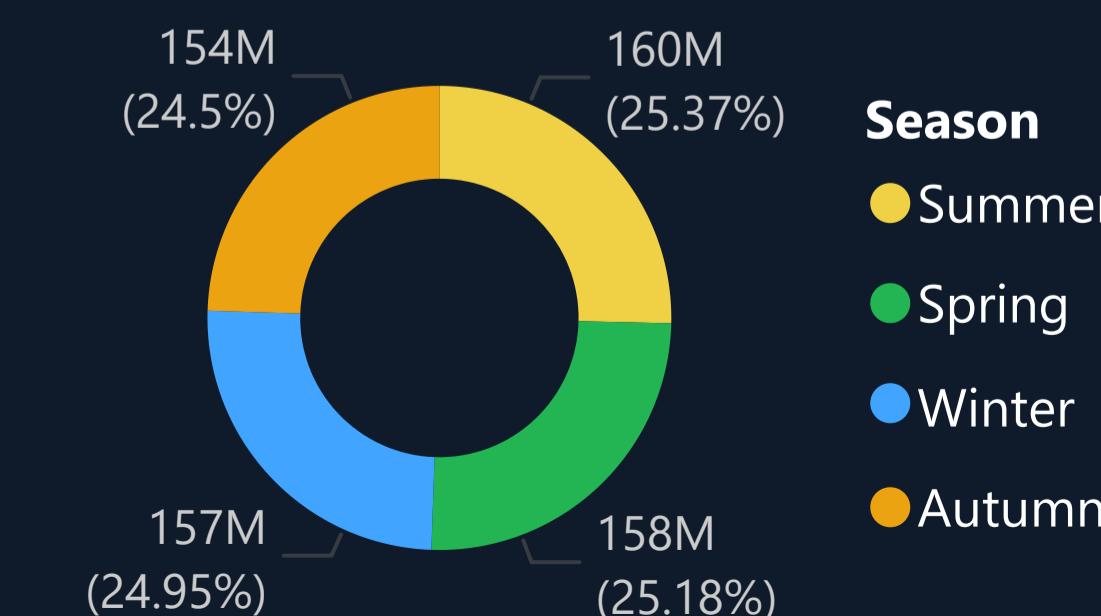
Storage Capacity (TB) by Region



Regional Demand Growth Analysis



Seasonal Demand Contribution



MonthYear

All

Region

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Service

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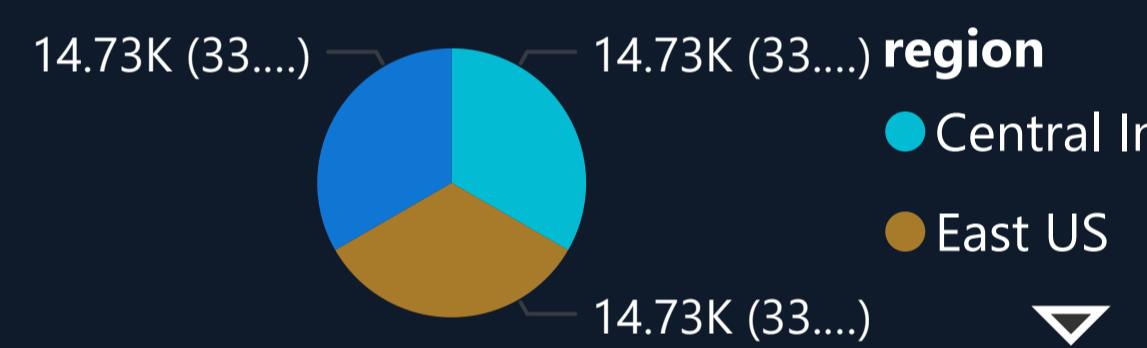
Season

All

## East US

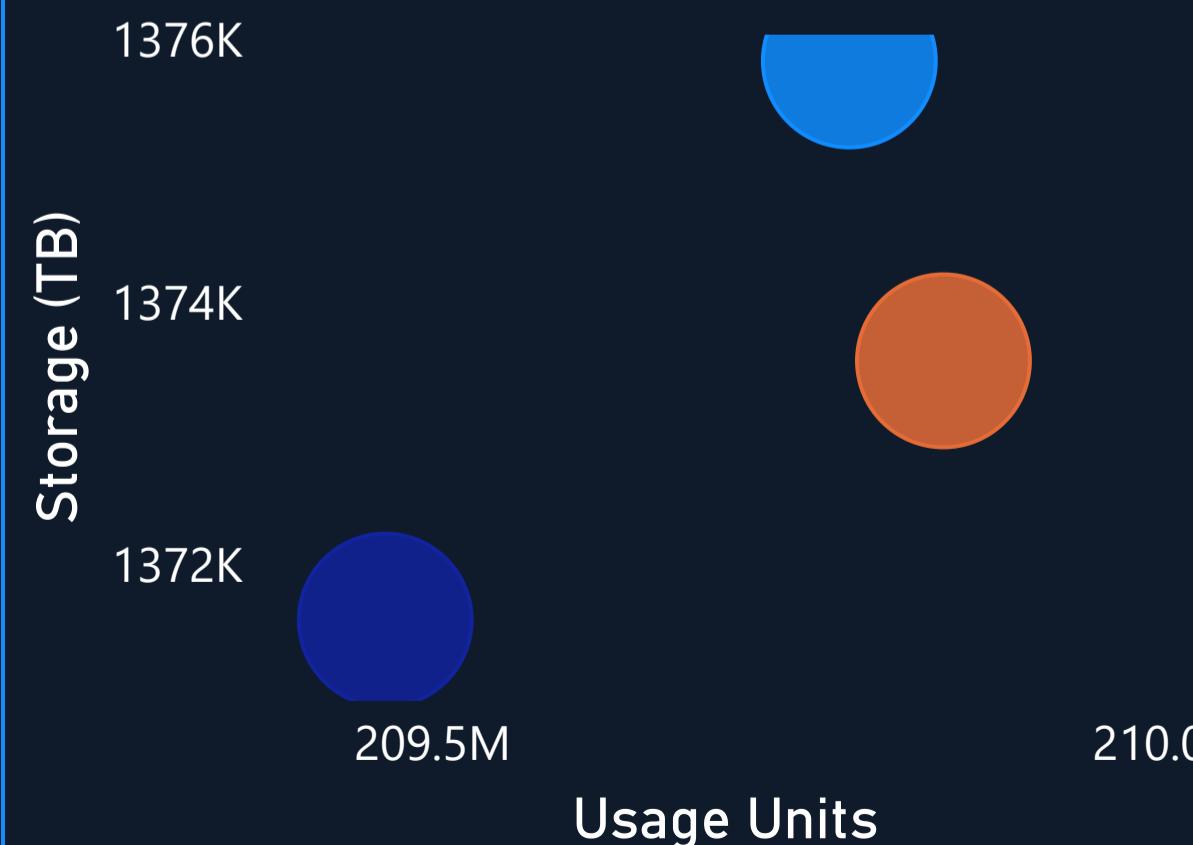
Top Compute Region

### GDP Growth Contribution by Region



### Compute vs Storage vs Cloud Demand

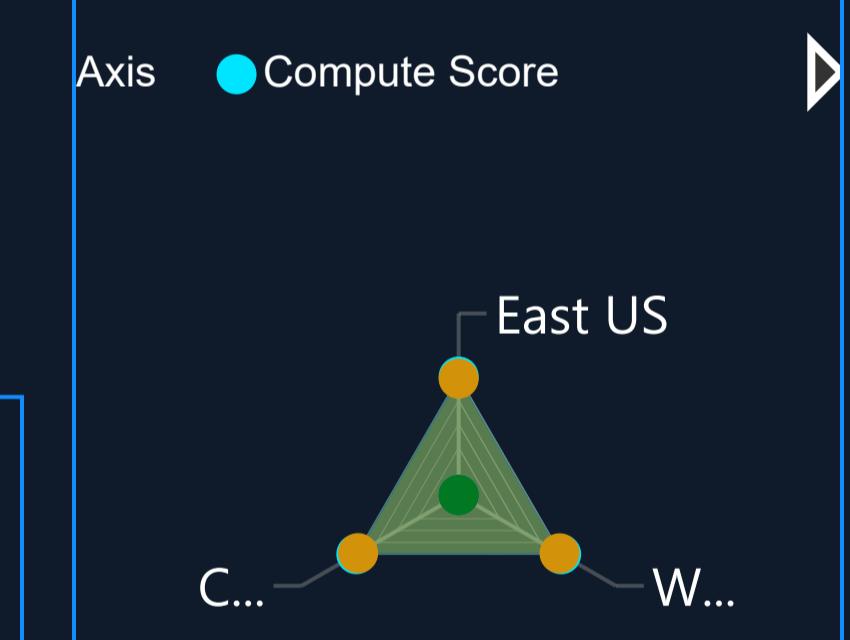
Region ● Central India ● East US ● West Europe



## West Europe

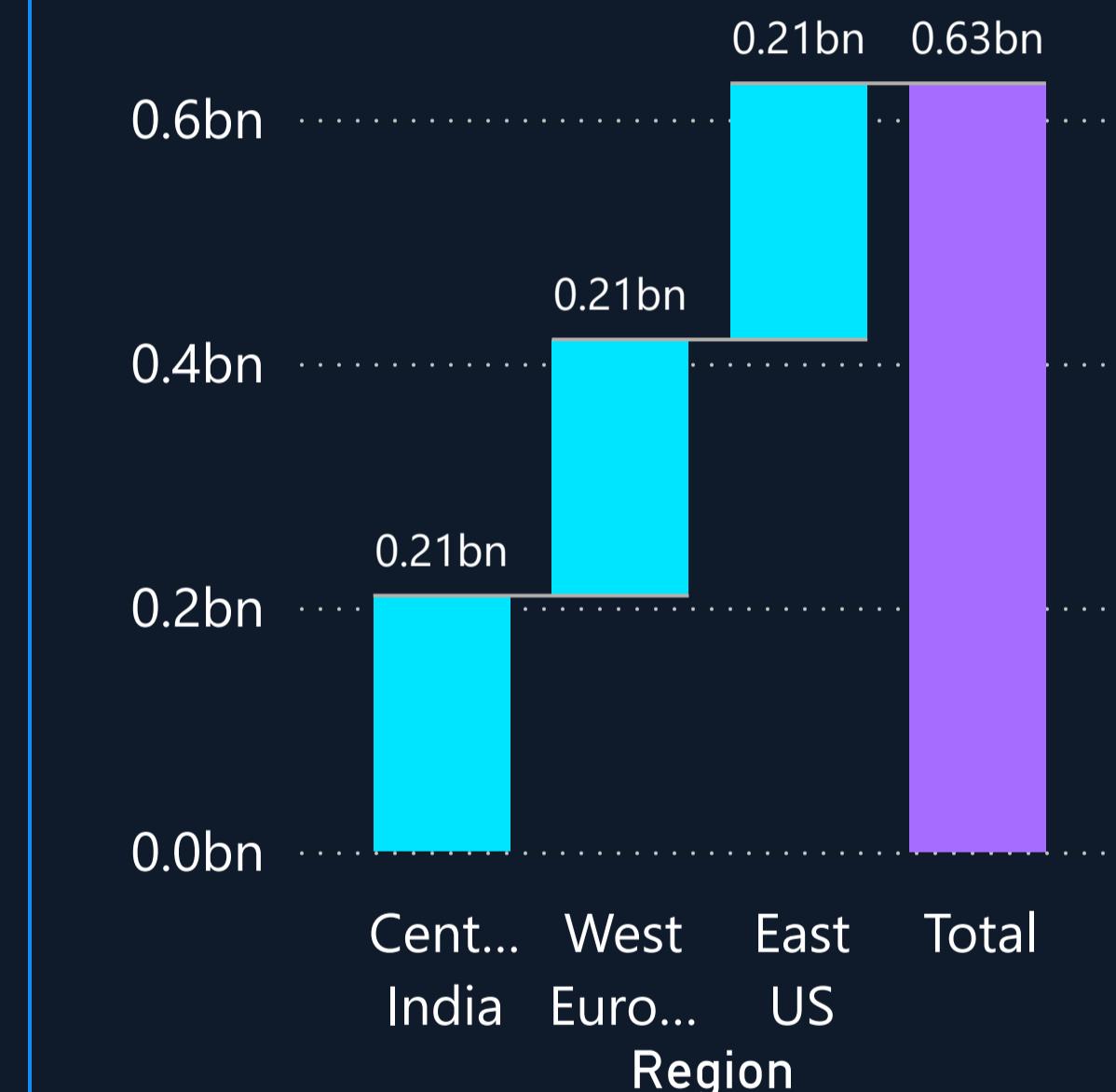
Top Storage Region

### Region Strength Profile

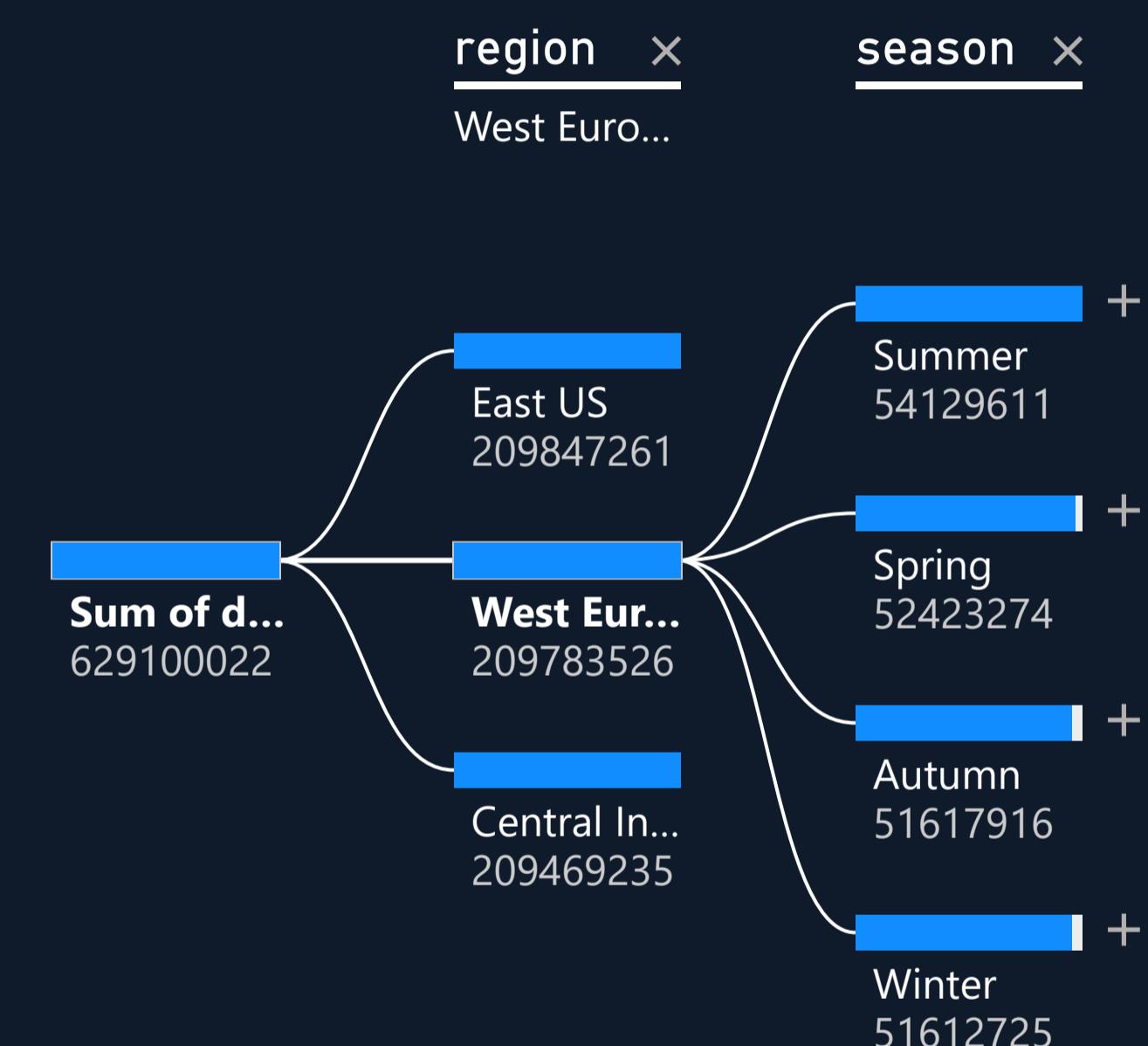


### Regional Contribution to Total Demand

● Increase ● Decrease ● Total



### Demand Breakdown by Region and Season



region	Sum of usage_units	Sum of peak_usage_units	Sum of demand_actual	Sum of week_over_week_growth	Sum of cloud_demand_index
Central India	209469235	240847756	209469235	23,927.83	327734
East US	209847261	241831867	209847261	23,777.29	327734
West Europe	209783526	241399721	209783526	25,266.64	327734
<b>Total</b>	<b>629100022</b>	<b>724079344</b>	<b>629100022</b>	<b>72,971.77</b>	<b>983202</b>

# Model Analysis

MonthYear

All

Region

All

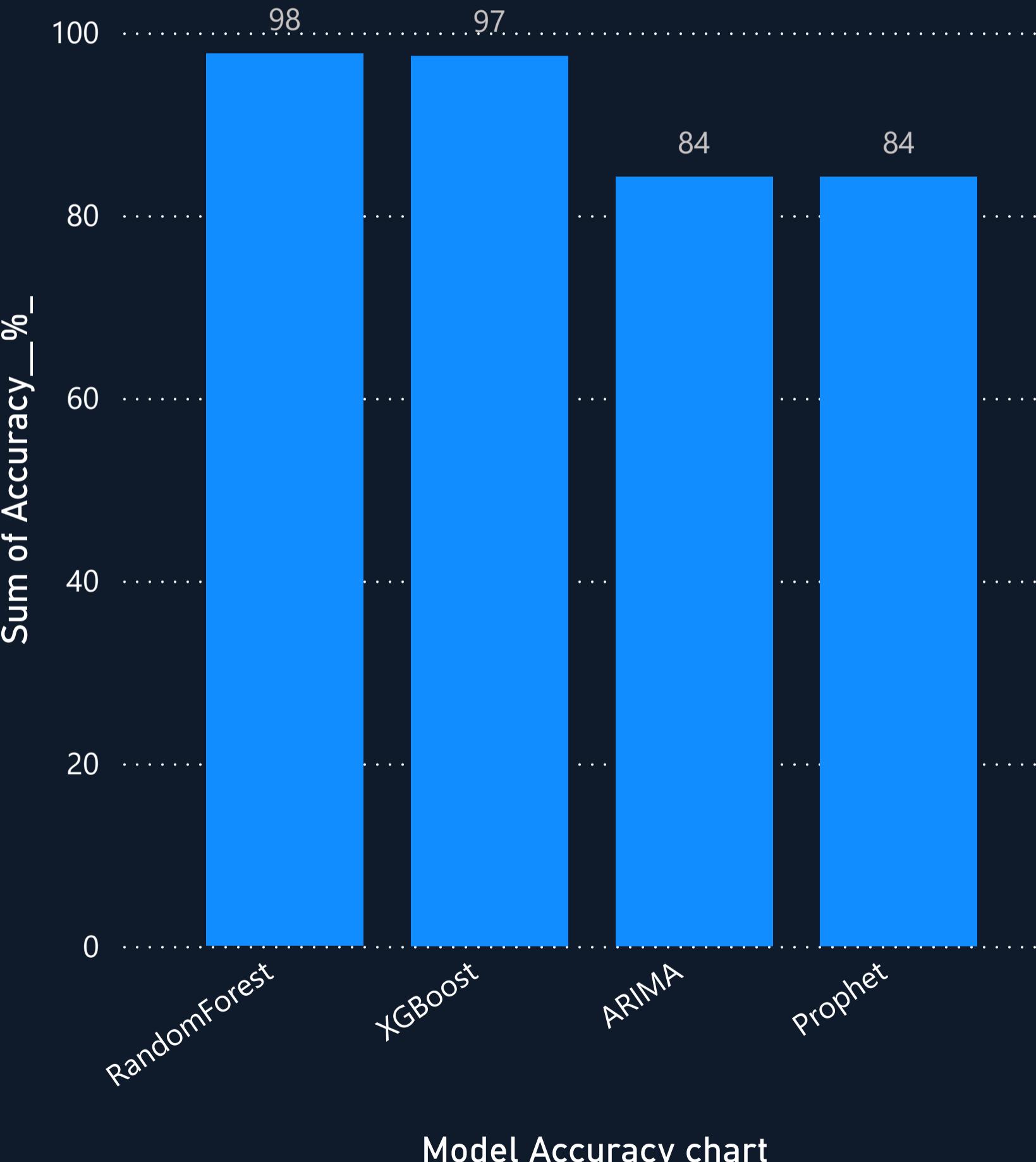
Service

All

Season

All

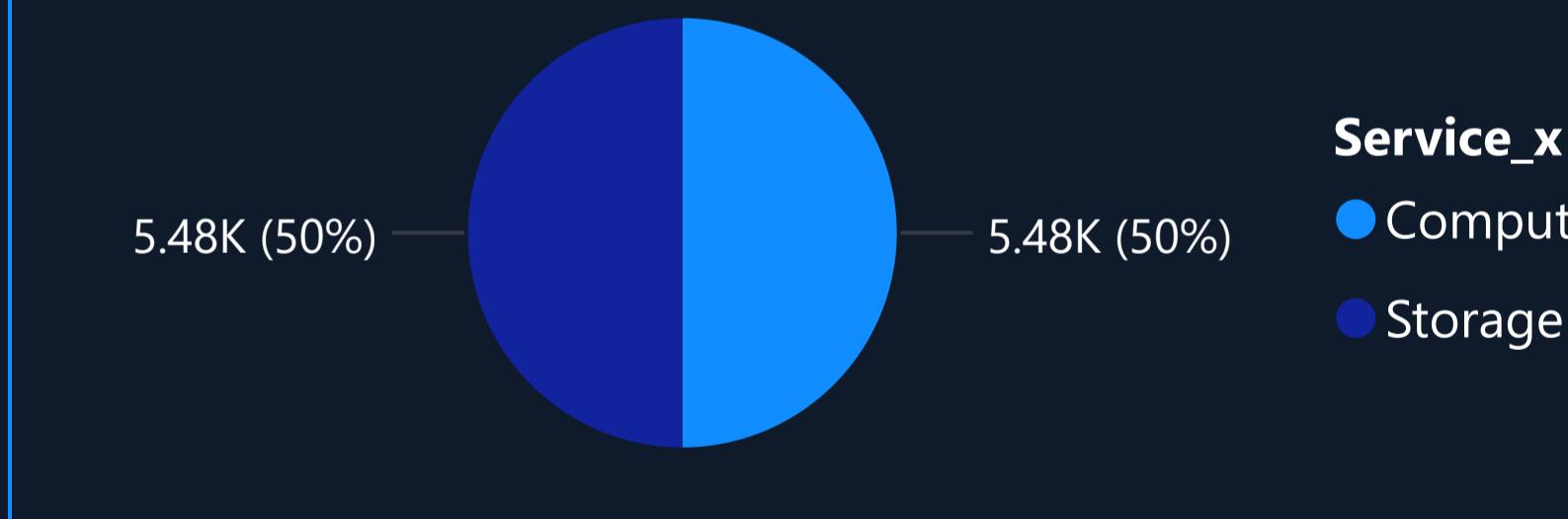
Sum of Accuracy\_\_%\_ by model



Model's Accuracy, MAE, RMSE, SMAPE score

Accuracy__%	MAE	model	RMSE	SMAPE
84.19	57,345.78	Prophet	70,423.30	15.81
84.20	57,345.69	ARIMA	70,131.40	15.80
97.46	9,068.54	XGBoost	11,743.22	2.54
97.69	8,137.45	RandomForest	10,452.60	2.31

Daily Usage of service x



Region, storage\_tb

- region, storage\_tb
  - Central India
  - East US
  - West Europe

Region Performance Score by region and season

