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Created by: Anubhav Oberoy

System: SAC Implementation project

Software Requirement Specification: SAC Prediction Time Series

USA Education Department

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User Persona:



Roger Morrison is **Data scientist** working with Anubhav Trainings. he is a data scientist specialized in working with education industry and social status of underprivileged children. He works with federal government with various projects like Education rights for everyone, learn to become expert and more...

He helps the governments of USA and Canada, scrutinizing the financials of the educational institutions and helps governments to plan their education expenditure and budget. With over 32 years of domain experience, he is holding precious awards as one of the best government advisor for risk/budget planning on education sector.

The Business Story

The United States Census Bureau conducts annual surveys to assess the finances of elementary and high schools and data set contain a summary of revenue and expenditure for the years 1992-2016, organized by state.

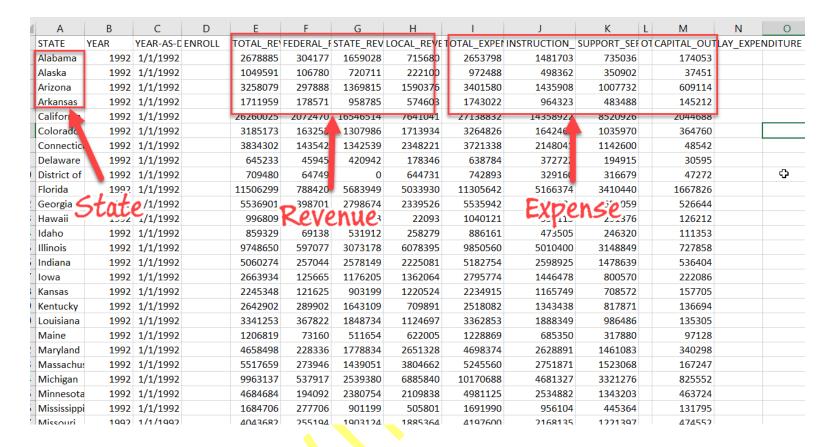
Roger will review and analyze the revenue and expenditures of the past years and explore both expenditure and revenues across all 50 states using smart discovery features and forecast for the next few periods. During exploration you will find that the revenue and expenditure patterns are different for each state and one model cannot work well for all the state.

To improve the forecasting accuracy, it is necessary to model each state separately and requires 50 models as we have 50 states. Normally modeling 50 states separately is a tedious work. But SAC segmentation feature helps us to accomplish this easily and then consume forecasting results into our analytics.

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Below is the screenshot of all the state wise revenue and expenses



Requirement 1: Create the dataset and model with Geo Enrich of US State

Requirement 2: Create Story as below

Add Geo Map with Choropleth layer for Area (Region) per Total Revenue & Total Expenditure. Add Chat for Show Total Revenue & Expenditure as per Year.

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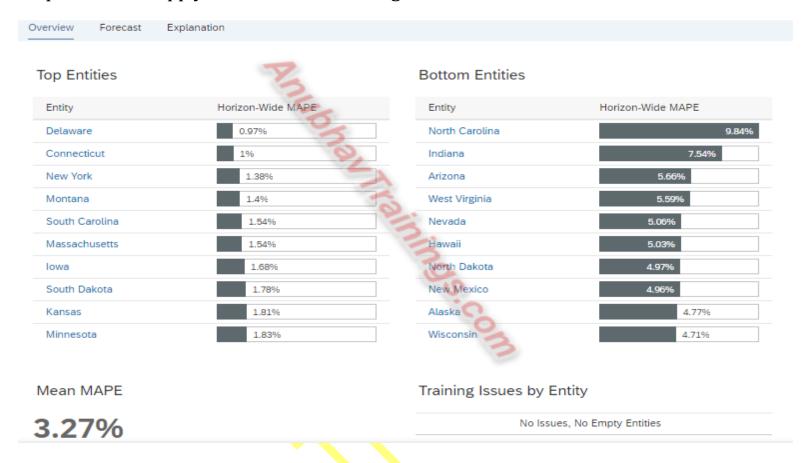
Requirement 3: Create Time Series Predictive Scenario



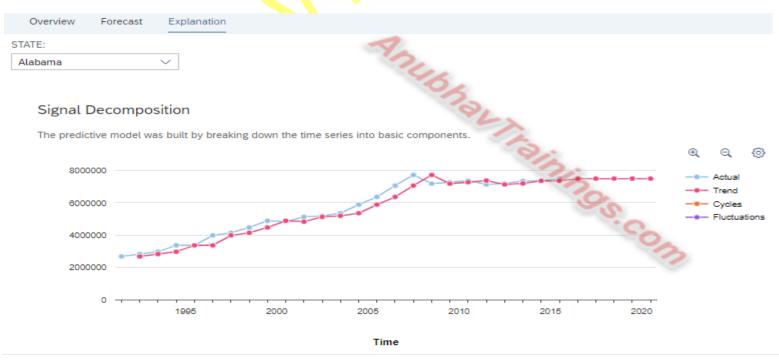
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Requirement 4: Apply the dataset for training and observe the MAPE



Requirement 5: Understand the Residual Min and Max



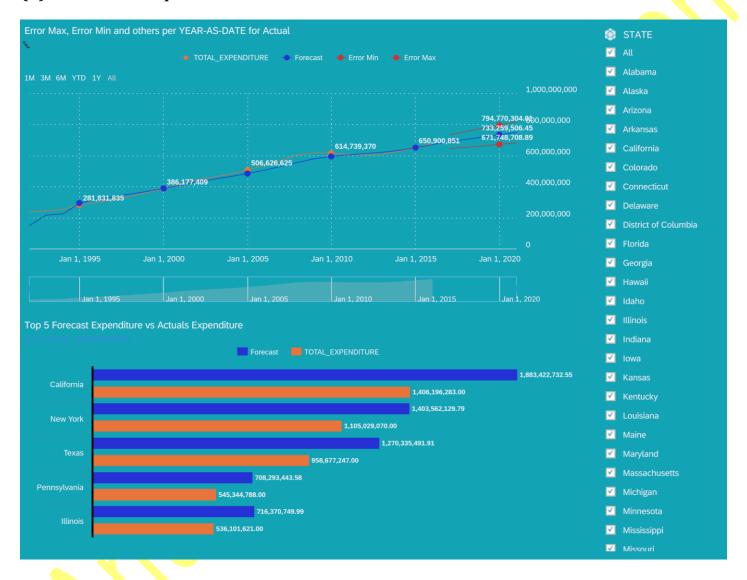
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Requirement 6: Save the Predicted output to data sets and create BI Models

Requirement 7: Present Expenditure and Revenue data of forecast to a Story as below

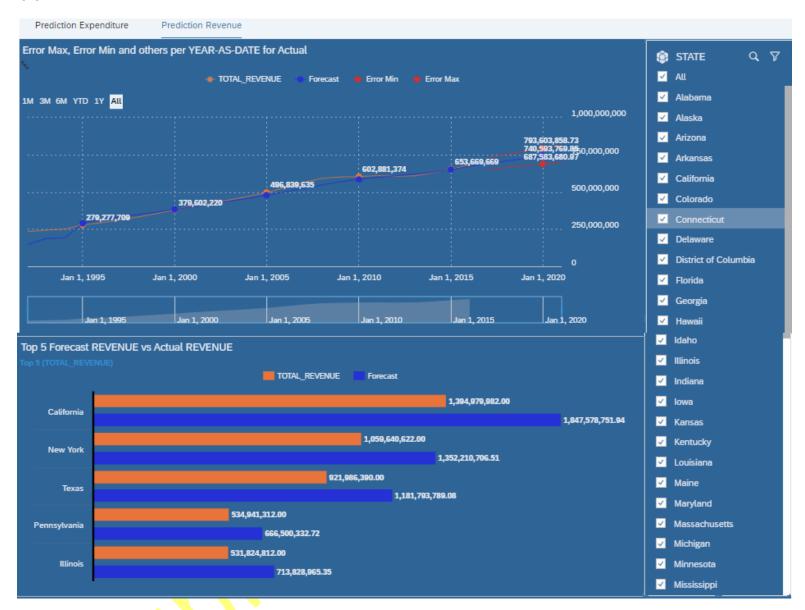
(1) Prediction Expenditure.



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(2) Prediction Revenue.



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contact@anubhavtrainings.com

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