Problem Statement No. 38 - Improved Source of Drinking Water

The Challenge: Access to safe and improved sources of drinking water remains a critical issue in India, especially in rural and underdeveloped regions. Despite ongoing efforts under the Sustainable Development Goals (SDGs), inequalities persist in water accessibility across states and socio-economic groups. This project aims to analyze data from the 78th Round of the Multiple Indicator Survey (MIS) to assess the percentage of the population with access to improved drinking water sources. It will also explore related indicators such as use of clean cooking fuel and migration trends. By identifying patterns and disparities, the study will generate actionable insights to support evidence-based policymaking. The ultimate goal is to help ensure equitable access to clean water and contribute to India's progress on SDG targets.

Al Kosh Dataset Link -

https://aikosh.indiaai.gov.in/web/datasets/details/improved_source_of_drinking_water_multiple_indicator_survey_78th_round.html

Technology - Use of IBM cloud lite services is mandatory.

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Welcome, Supraja!

Take a tutorial

Step through implementing a Data fabric use case in a sample project.

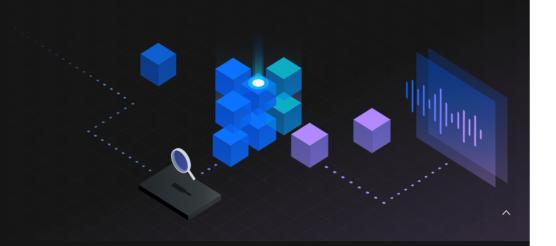
Work with data

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Create a project for your team to prepare data, find insights, or build models.

Find what you need

Open this interactive map to find the tools that you need for your tasks.



Quick start



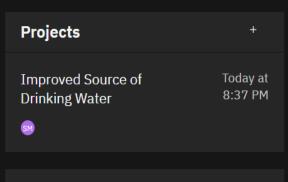
Build customer profiles
with IBM Match 360 with Watson



Catalog and govern data with watsonx.data intelligence



Build and manage ML models with watsonx.ai Studio



Notifications Online deployment ready The online deployment Improved Source of Drinking Water in space Improved Source o... Today at 8:52 PM

Improved Source of Drinking Water

+

Today at 8:51 PM

New in Resource hub



Knowledge Accelera.

③

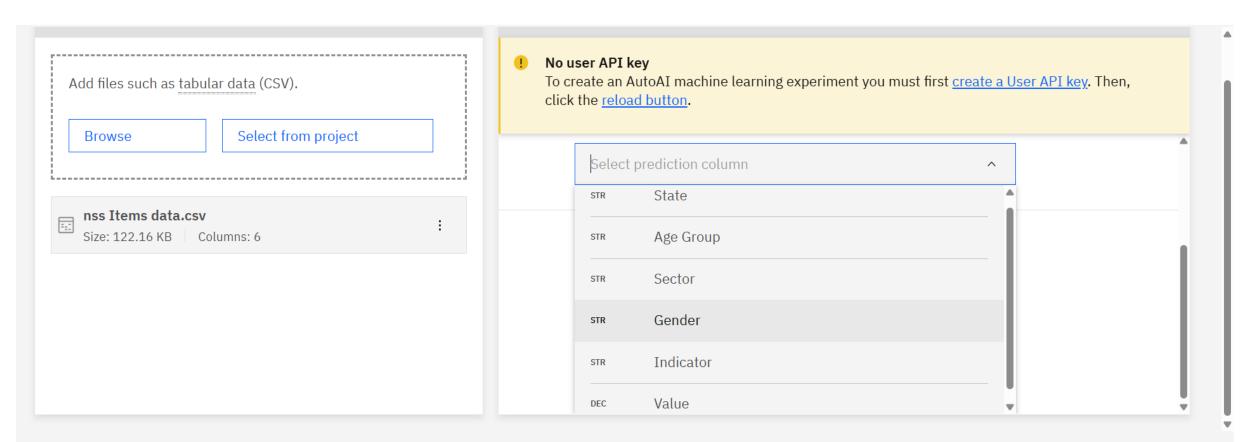
Projects / Improved Source of Drinking Water / Improved Source of Drinking Water

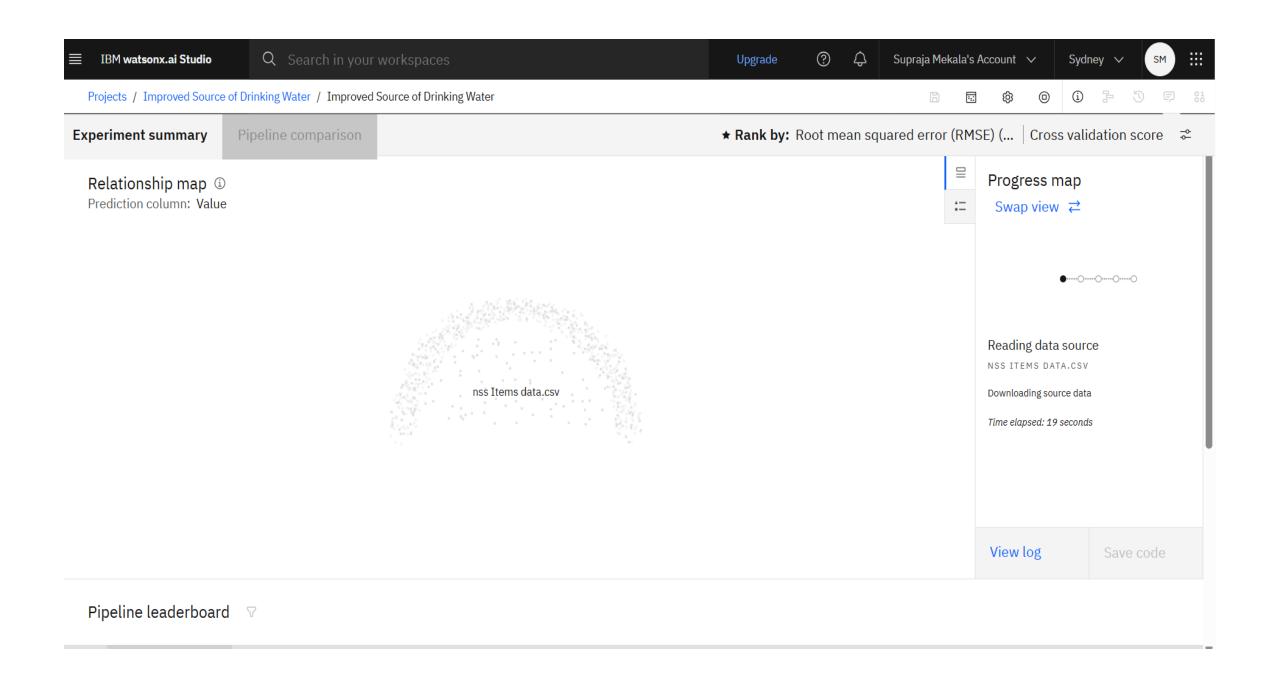


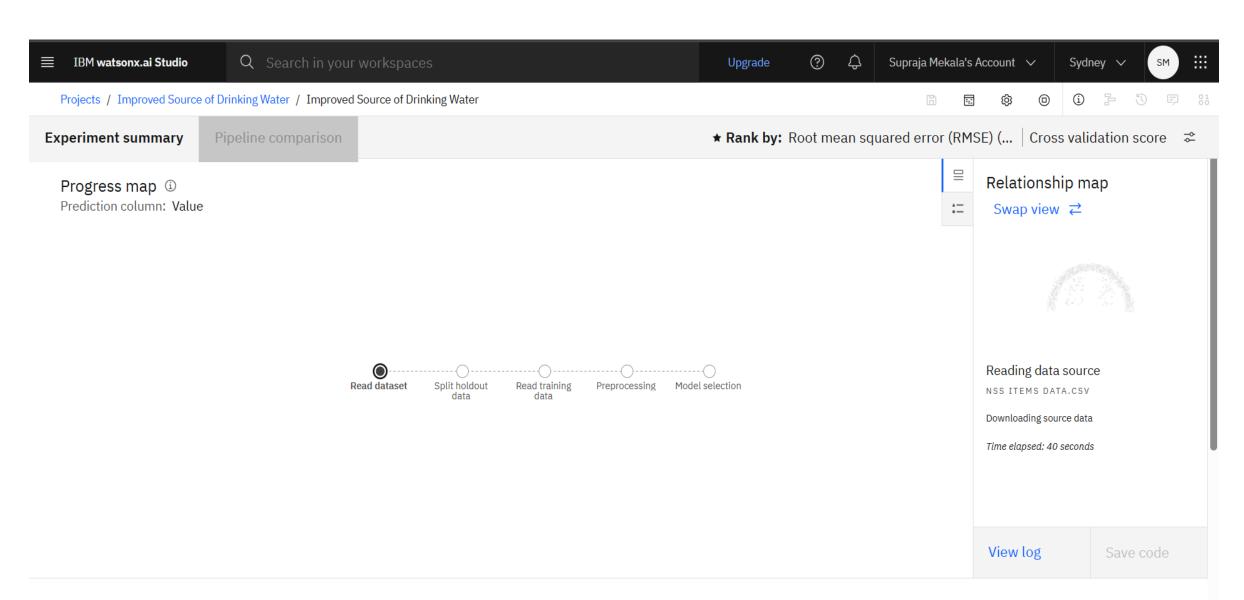
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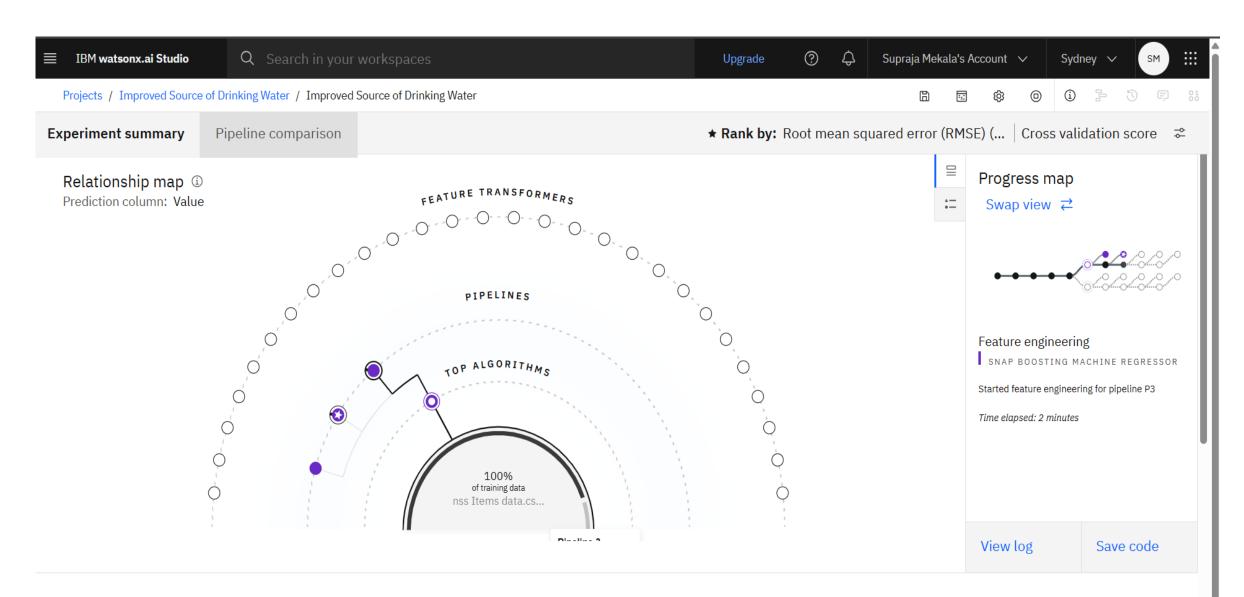
Configure AutoAI experiment

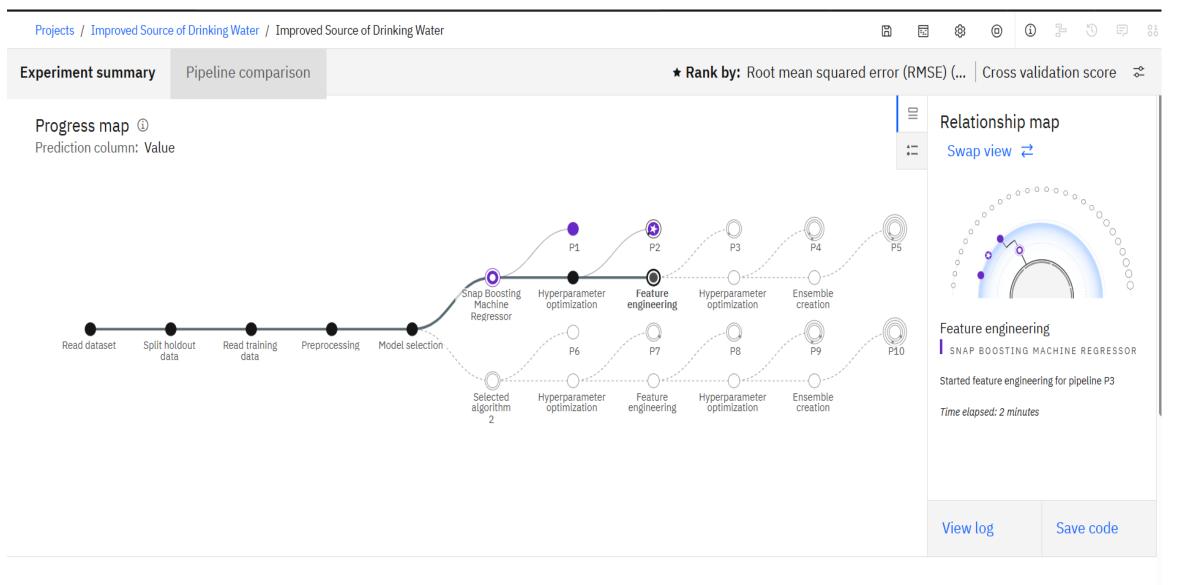
Improved Source of Drinking Water 4











	Rank ↑	Name	Algorithm	Specialization	RMSE (Optimized) Cross Validation	Enhancements	Build time
*	1	Pipeline 5	Batched Tree Ensemble Regressor (Snap Boosting Machine Regressor)	INCR	4.170	HPO-1 FE HPO-2 BATCH	00:00:26
	2	Pipeline 4	• Snap Boosting Machine Regressor		4.170	HPO-1 FE HPO-2	00:00:24
	3	Pipeline 3	• Snap Boosting Machine Regressor		4.247	HPO-1 FE	00:00:21
	4	Pipeline 2	• Snap Boosting Machine Regressor		4.252	HPO-1	00:00:04







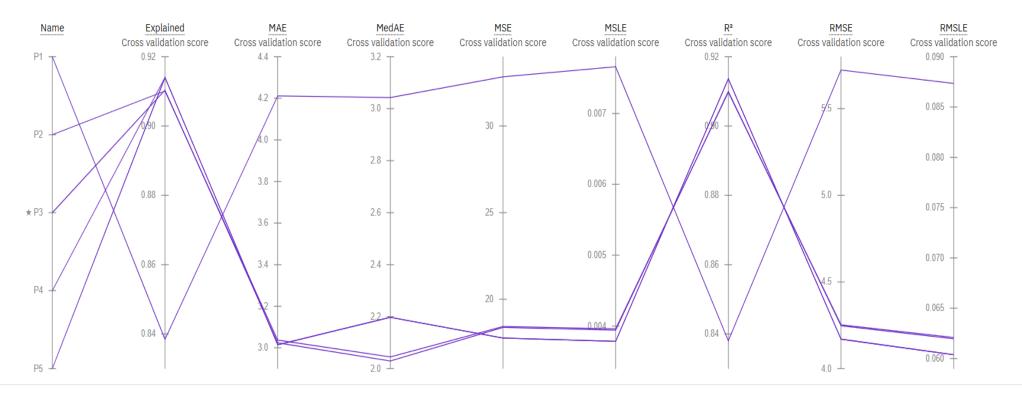
Experiment summary

Pipeline comparison

★ Rank by: Root mean squared error (RMSE) (... | Cross validation score 💝

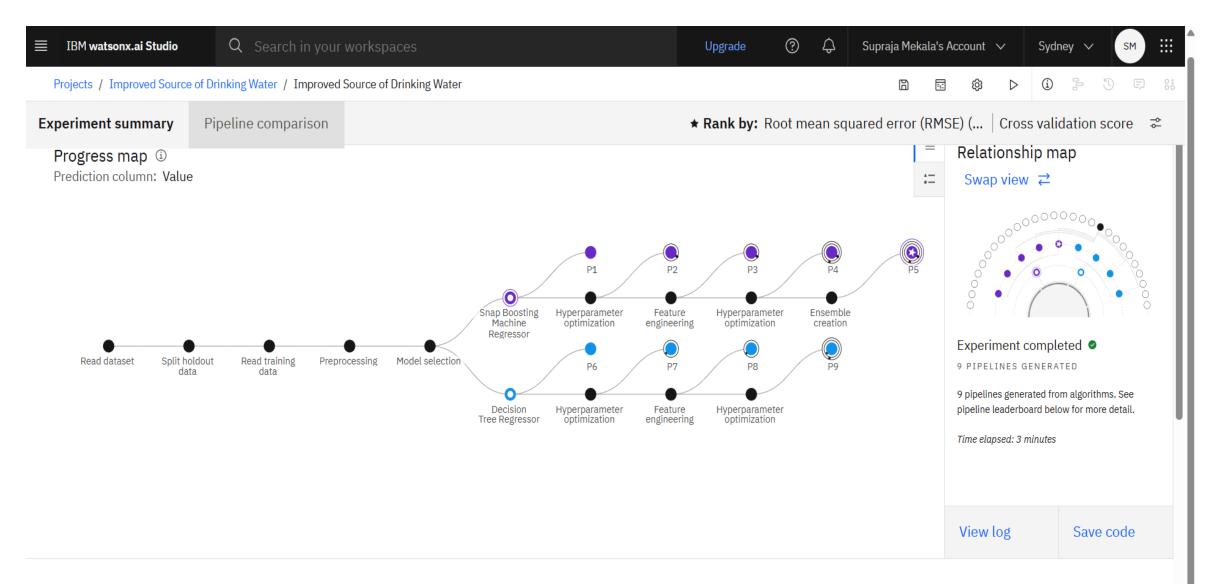
Metric chart ①

Prediction column: Value



Pipeline leaderboard

▽



Pipeline leaderboard

▽

