

Water Quality Analysis

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Project Definition:

The project involves using IBM Cognos to analyzing water quality data to assess the suitability of water for specific purposes, such as drinking. The objective is to identify potential issues or deviations from regulatory standards and determine water potability based on various parameters. This project includes defining analysis objectives, collecting water quality data, designing relevant visualizations in IBM Cognos, and building a predictive model.

Design Thinking:

1:Analysis Objectives: Define specific objectives for analyzing water quality data, including assessing potability, identifying deviations from standards, and understanding parameter relationships.

2:Data Collection: Gather the provided water quality data containing parameters like pH, Hardness, Solids, etc.

3:Visualization Strategy: Plan how to visualize parameter distributions, correlations, and potability using IBM Cognous suitable tools.

4: Predictive Modeling: Decide on the machine learning algorithms and features to use for predicting water potability.

Algorithm:

1. To Collect the dataset
2. Preprocess the dataset
3. Analyse the dataset
4. Recollect and the Visualize the model
5. Get the insights from the Visulized of the data model.