

Project Design Phase-I Solution Architecture

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| Date | 12 october 2022 |
| Team ID | PNT2022TMID30589 |
| Project Name | Efficient Water Quality Analysis & Prediction Using Machine Learning |
| Maximum Marks | 4 Marks |

Solution Architecture:

- Create and log in to the IBM Watson Studio.
- Upload the Jupiter notebook and start running it.
- Download the dataset.
- Pandas is used for reading the data and performing initial data exploration.
- Matplotlib and Seaborn are used for visualizing the data.
- Scikit-Learn is used for model development.
- Use the IBM Watson Machine Learning feature to deploy and access the model to generate employee attrition classification.

Solution Architecture Diagram:

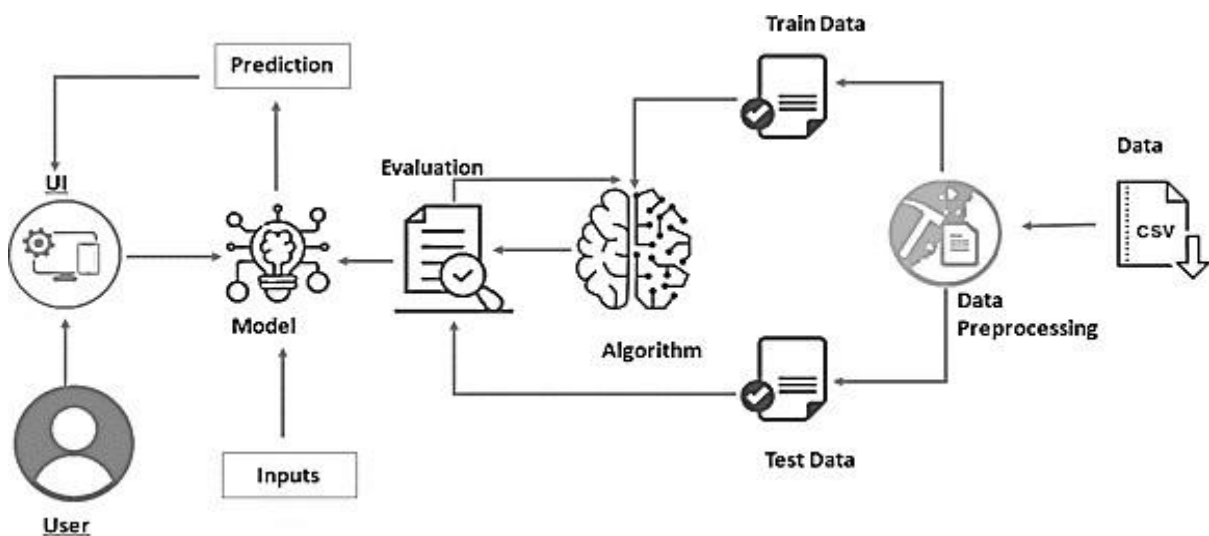


Figure 1: Architecture and data flow of Efficient Water Quality Analysis & Prediction