GOVERNMENT COLLEGE OF ENGINEERING BARGUR ( AUTONOMOUS)

Project : Cloud Application Development

Project Statement: Machine Learning Model Deployment with IBM Cloud Watson Studio

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Project Overview

Problem Statement:

The project involves training a machine learning model using IBM Cloud Watson Studio and deploying it as a web service. The goal is to become proficient in predictive analytics by creating a model that can predict outcomes in real-time. The project encompasses defining the predictive use case, selecting a suitable dataset, training a machine learning model, deploying the model as a web service, and integrating it into applications.

Problem Solution:

Design thinking approach:

1.Predictive Use Case:

Clearly define the specific problem we want to solve using predictive analytics. This may involve identifying a business challenge that can benefit from predictive modelling, such as sales forecasting, customer churn prediction, or fraud detection.

2.Dataset Selection:

Identify and access a dataset that is relevant to the chosen predictive use case. The dataset should be clean, well-structured, and contain the necessary features for training a predictive model.

3.Machine Learning Model Selection:

Choose an appropriate machine learning algorithm or model that is suitable for the predictive use case. Consider factors such as the nature of the data, the desired outcome, and any constraints.

4.Deployment Strategy:

Define a deployment strategy for making the trained model accessible as a web service. This may involve using IBM Cloud Watson Studio or other deployment platforms.

5.Integration into Applications:

Plan how the deployed model will be integrated into existing or new applications to provide real-time predictions.

Conclusion:

In this document, we have outlined our approach to solving the problem of training a machine learning model and deploying it as a web service for predictive analytics. By following a structured process that encompasses problem understanding, stakeholder engagement, goal setting, and solution design, we aim to achieve our project objectives effectively and efficiently.

As we move forward, we will execute the project according to this plan, continuously monitor progress, and adapt our strategies as needed to ensure the successful deployment and integration of the predictive model.