GOVERNMENT COLLEGE OF ENGINEERING BARGUR

(AUTONOMOUS)

PROJECT TITLE: MACHINE LEARNING MODEL DEPLOYMENT WITH IBM CLOUD WATSON STUDIO

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PROBLEM STATEMENT:

Using IBM Watson Machine Learning, you can deploy models, scripts, functions, and web apps, manage your deployments, and prepare your assets to be put into production and to generate predictions and insights.The Watson Machine Learning service is not available by default. An administrator must install this service on the IBM Cloud Pak for Data platform. To determine whether the service is installed, open the Services catalog and check whether the Watson Machine Learning service is enabled.

DESIGN THINKING:

1. Dataset Selection: Choose a relevant dataset to train the machine learning model.
2. Model Training: Select a suitable machine learning algorithm and train the model using IBM Cloud Watson Studio.
3. Model Deployment: Deploy the trained model as a web service using IBM Cloud Watson Studio's deployment capabilities.
4. Integration: Integrate the deployed model into applications or systems to make realtime predictions.

DEPLOYMENT OVERVIEW:

To deploy an asset, you must have a *deployment space*. Here, you can organize the assets to create and monitor deployments. A space contains an overview of deployment status, the deployable assets, deployments, associated input and output data, and the associated environments. A deployment makes a copy of a model or script available to test and use. For example, you can create a deployment for a machine learning model so you can submit new data to a model and get a score, or prediction back.

STEPS:

- Find out how to view and manage assets on deployment spaces
- Find out how to deploy a model from a deployment space.
- View sample notebooks that demonstrate deploying using the Python client or Watson Machine Learning API.
- Evaluate your deployed models for bias using Watson Open Scale.