PWSkills
Wireframe
Industrial Automation
Internship Report

Automated Machine Learning

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Wireframe

1. Homepage
   - Title: "Automated ML"
   - Description: Select the mode for training..
   - Buttons: "Automatic, Manually Configure"

2. ManualConfigPage
   - Title: "Manual Configuration"
   - Options: "Data Ingestion, Data Transformation, Model Training, Model Evaluation"
   - Button: "Train Model"

3. Modelpage

Wireframe Details

Automated ML

Automated ML is a powerful tool designed to streamline machine learning for users of all levels. Whether you're just getting started or are a seasoned data scientist, Automated ML offers flexible options for building and training models that suit your needs.

With Automatically Train Mode, you can simply upload your data, select the type of model you want to train, and let Automated ML handle everything. It will automatically preprocess your data, train the model, and evaluate its performance—getting you quick results with minimal setup.

For those who want more control, our Manually Configure allows you to configure each stage of the ML process to fit your requirements. Customize data preprocessing, model selection, and evaluation settings to achieve the best results for complex or specialized tasks.

Automated ML supports a variety of machine learning tasks, including classification, regression, and and provides a wide range of algorithms to match your data and problem.

Automatically Train | Manually Configure

Machine Learning Model Configuration

Upload Dataset:

Choose File | heart.csv

Prediction Type:

Classification

Data Ingestion

Source:

Local

The dataset will be ingested from the selected source.

Data Transformation

Transformation Type:

Manual

Model Trainer

Select Algorithm:

Auto

Model Evaluation

Evaluation Metric:

F1-Score (Classification)

Train Model

Best Suited Model

Random Forest Classifier

A random forest is a meta estimator that fits a number of classifying decision trees on various sub-samples of the dataset and uses averaging to improve the predictive accuracy and control over-fitting.

Download Model

Model Performance

Accuracy: 0.4444444444444444

F1 Score: 0.5

Precision Score: 0.4166666666666667

Recall Score: 0.625

Test Live

Enter 0 for false/female and 1/male for true

Enter age

Enter age here

Enter sex

Enter sex here

Enter cp

Enter cp here

Enter trestbps

Enter trestbps here

Enter chol

Enter chol here

Enter fbs

Enter fbs here

Enter restecg

Enter restecg here

Enter thalach