LOW LEVEL DESIGN

Mushroom Classification

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Document Control

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1 Introduction

* 1. what is Low-Level document?

The goal of low-level design document is to give the internal logical design of actual program code for mushroom classification. LLD describe the class diagrams with methods and relations between classes and program specs.it describe module so that programmer can directly code program from document

1.2SCOPE

The LLD is a component level-design process that follow a step-by-step refinement process. This process can be used for designing data structures, required software architechture ,source code and ultimately ,performance algorithms.

2.Architechture

PREDICTION

END

MODEL

USER DATA

HYPERPARAMETER TUNNING

MODEL BUILDING

FEATURE SELECTION

EDA

PREPROCESSING

DATA GATHERING

START

3.Architechture description

DATA GATHERING

The data gather from kaggle data science community with large number of participants or contributors

PRE-PROCESSING

Data with large value convert to small value with out loss any information(standardization).convert the categorical data into numerical data using (label,onehot encoder)

MODEL BUILDING

After pre-processing we will find the best model for classification and apply hyper parameter tunning using grid search, random search optimization algorithm and predict the output

HYPER PARAMETER TUNNING

In this process we use multiple parameter for get better result from our trained model for that we use gridsearchcv,randomsearchcv

USER DATA

Her we will collect data from user as features of columns ,as well as information directly taken from user

MODEL

After the application start and data given by user model will perform classification and display its eatable or not

Deployment

We deploy the model in streamlit

TESTCASE

|  |  |  |
| --- | --- | --- |
| Testcase | Pre-required | Expected result |
| Check input fields are working | Application input field | work |
| Check submit button | Submit button | work |
|  |  |  |
|  |  |  |