

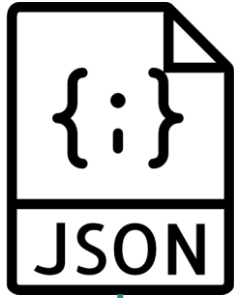


ASME IDETC-CIE 2023

International Design Engineering Technical Conferences
& Computers and Information in Engineering Conference

CONFERENCE AUGUST 20-23, 2023

Overview



Name of the Body Except Body

Area

Volume

Categories

Industries

LabelEncoder()



Avg.Aspect Ratio

Avg. Skewness

Approximate Thickness

Euler's characteristic

Normalized between 0-1

Mesh Quality Measures:

Topology Information



Overview

INPUT PARAMETERS

Readiness

[immangwu/GWU](https://github.com/immangwu/GWU)

Logistic Regression

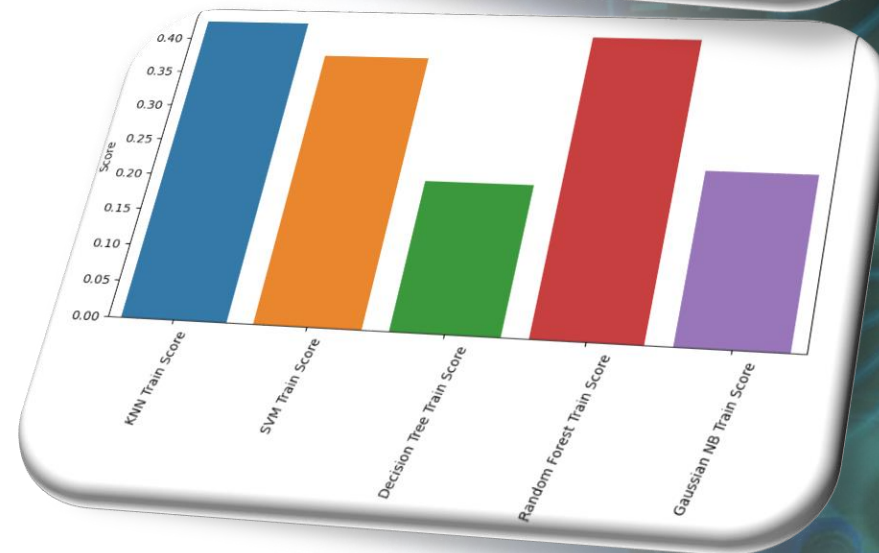
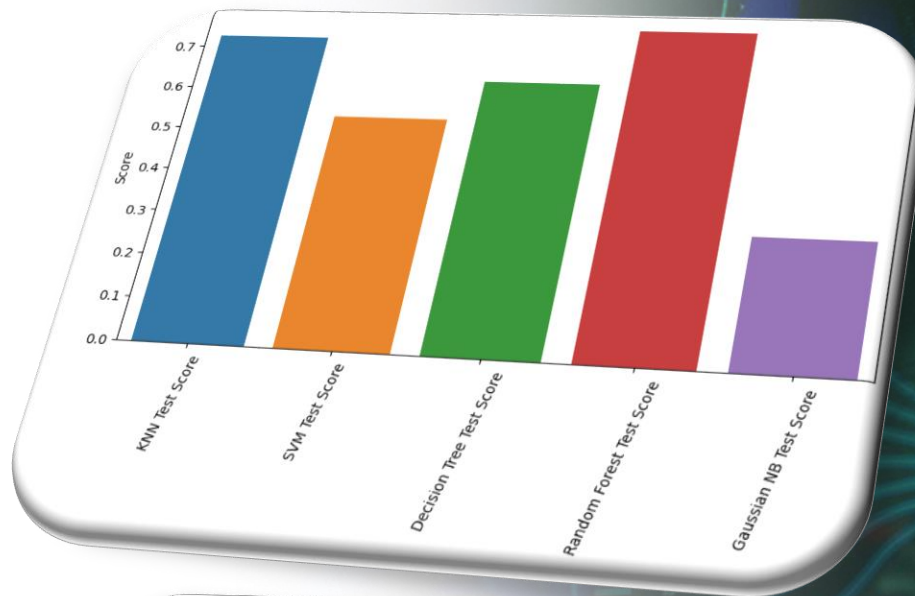
KNN Classifier

Support Vector Classifier

Decision Tree Classifier

Random Forest Classifier

Naïve Bayes Classifier



Output PARAMETERS

Feasibility Metric



Future Direction



OBJ File

Topology Feature
Connectivity

Curvature Features

Mesh Simplification Metrics

More Inputs

Language Model

Prompt to get cost of the body

Volume

Industry

Categories

Body

Component

Assembly

Team work : Zhenghui Sha

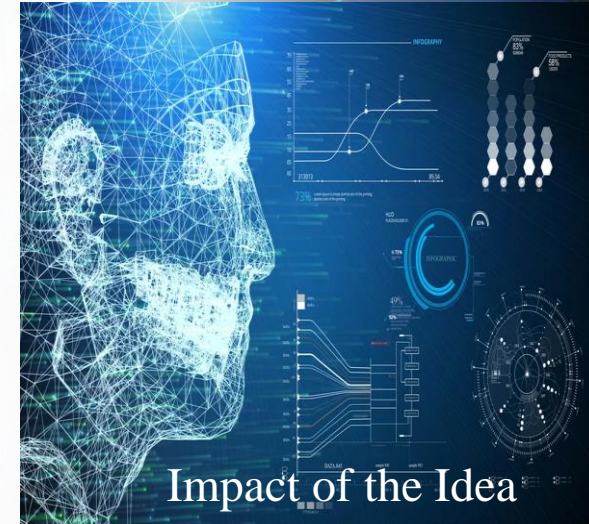


Image with CNN