PROJECT PROPOSAL

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PROJECT TITLE

Gender Classification

INTRODUCTION

A gender classification system uses face of a person from a given image to tell the gender (male/female) of the given person. A successful gender classification approach can boost the performance of many other applications including face recognition and smart human-computer interface this can be carried through ML classification models such as KNN, Logistic, Regression and Decision Tree to classify the gender by the face sizes.

DATA DESCRIPTION

This dataset contains 7 features and a label column.
long*hair* - This column contains 0's and 1's where 1 is "long hair" and 0 is "not long hair".
foreheadwidth*cm* - This column is in CM's. This is the width of the forehead.
foreheadheight*cm* - This is the height of the forehead and it's in Cm's.
nosewide - This column contains 0's and 1's where 1 is "wide nose" and 0 is "not wide nose".
nose*long* - This column contains 0's and 1's where 1 is "Long nose" and 0 is "not long nose".
lipsthin - This column contains 0's and 1's where 1 represents the "thin lips" while 0 is "Not thin lips".
distance*nose*to*lip*long - This column contains 0's and 1's where 1 represents the "long distance between nose and lips" while 0 is "short distance between nose and lips".
gender - This is either "Male" or "Female".

TOOL DESCRIPTION

To achieve my goal, i will analyze and explore the data in python by using Jupyter using packages like SKLearn gor modeling, Matplotlip, seaborn, Pandas and numpy

COCNCLUTION

I am aiming to know the gender of a person passed on his face sizes by using machine learning classification models So in this document I explain the idea of the problem I want to solve using the dataset I extract it from Kaggle