I’m excited to share another data analytics project at MeriSkill

**Title: PIMA Indian Diabetes Data Analysis**

**About the Project:**

This data Analytics project focuses on Analyze diabetes in female patients of Pima Indian heritage, aged at least 21 years, by analyzing their medical factors. The dataset, sourced from the National Institute of Diabetes and Digestive and Kidney Diseases, contains diagnostic measurements and medical predictor variables, such as Glucose Level, Blood Pressure, Skin Thickness, Insulin Level, BMI, age, and more. During the Exploratory Data Analysis, it was discovered that Glucose Level, Insulin Level, Skin Thickness, BMI, and the number of pregnancies serve as strong indicators of diabetes

**Objectives:**

(1) Predict if person is diabetes patient or not

(2) Find most indicative features of diabetes

**Key Insights of PIMA Indian Diabetes Data Analysis:**

* According my Analysis 500 people don't have diabetes, 268 people have the diabetes
* People who got the pregnancy 1 time is Higher. And 111 people didn't get pregnancy
* Glucose level plays a major role in determine whether the patient is diabetic or not. Most of the
* people had Glucose level from 80 to 120
* Most of the people have Blood Pressure Range from 60-80, and less no of the people have Blood Pressure Range from 24-60 and 90-122.
* I Observed 249 people had 23mm Skin thickness.
* most of the people had the insulin range between o to 200.
* More people had DiabetesPedigreeFunction value from o to 1 only.
* the people who had age 22 are higher when compare to the Remain age people. And 72 people had age 22 and followed 63 people had age 21.
* Most of the people have the diabetes who had age is 52 Years.
* we can observe most of people had diabetes who had got Pregnancies at 9 times followed by No Pregnancy.
* more people had diabetes which who had the Skin Thickness is 23 mm followed by 41mm.
* Pregnancies feature Highly correlated with Age which is 0.61.
* BMI and Skin Thickness correlation value is 0.57.
* Insulin had negative correlation with age.
* Glucose correlation with outcome which is 0.49