**Age -** The age of the person represented in the tuple.

**Gender -** The gender(Male or Female) of the person represented in the tuple.

**Polyuria –** Determines if the person represented by that tuple shows signs of Polyuria which is defined as the frequent passage of large volumes of urine – more than 3 litres a day compared to the normal daily urine output in adults of about 1 to 2 litres.

**Polydipsia -** Determines if the person represented by that tuple shows signs of Polydipsia which is the term given to excessive thirst and is one of the initial symptoms of diabetes.

**sudden weight loss –** Determines if the person represented by that tuple shows signs of acute weightless.

**Weakness –** Determines if the person represented by that tuple shows signs decreased strength.

**Polyphagia -** Determines if the person represented by that tuple shows signs excessive or extreme hunger. It is different than having an increased appetite after exercise or other physical activity. While your hunger level will return to normal after eating in those cases, polyphagia will not go away if you eat more food.

**Genital thrush -** Determines if the person represented by that tuple shows signs genital thrush which is a common condition caused by a type of yeast called Candida.

**Visual blurring -** Determines if the person represented by that tuple shows signs sudden blurred vision.

**Itching –** Determines if the person represented by that tuple shows signs of itchy skin.

**Irritability –** the person represented by that tuple shows signs of high irritability to outside sources.

**delayed healing –** Determines if the person represented by that tuple shows signs of delayed healing.

**partial paresis –** Determines if the person represented by that tuple shows signs of partial muscle weakness to certain muscle groups.

**Muscle stiffness –** Determines if the person represented by that tuple shows signs high of muscle stiffness to specific muscle groups.

**Alopecia –** Determines if the person represented by that tuple shows signs of hair loss with patchy hair spots. The condition develops when the immune system attacks the hair follicles, resulting in hair loss.

**Obesity –** Determines if the person represented by that tuple shows signs of excessive amounts of body fat.

**Class –** This represents whether the person in the tuple has diabetes or not.

As diabetes affects such a large majority of persons with 9.4 % of US (Fact Check later) populations now living with it. We believed it would be an interesting and beneficial project to pursue. Numeric Variable and Nominal Variables were also present in this dataset, so we also saw it as a good dataset to practice on. We believed there is a need to faster identify people who are at high risk of diabetes and that through analysing this dataset, we would be able to warn them early on using the machine learning model.