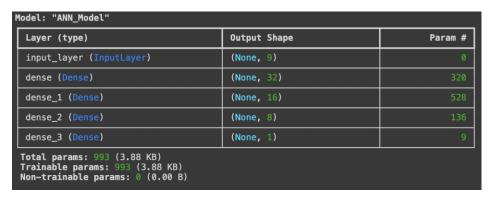
Project Deliverables

Team member:

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- Manisha Tolange
- Jaspreet Singh Virk
- Armit

Define Architecture of ANN Model:



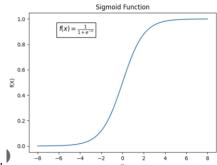
The detailed Architecture of ANN Model:

- a. Input Layer:
 - Number of Neurons: In this dataset, there are 9 input features, so there are 9 Neurons in the input feature.
 - Activation function: In this data, there is no activation function in the input layer.

b. Hidden layer:

We are adding several hidden layers with ReLU activation.

- First Hidden Layer: There are 32 neurons and Activation function is ReLU.
- Second Hidden Layer: There are 16 neurons and Activation function is ReLU.
- Third Hidden Layer: There are 8 neurons and Activation function is ReLU.



- c. Output Layer:
- Number of Neurons: 1 neurons for binary classification.
- Activation Function: Sigmoid, This is a binary classification problem, the sigmoid activation function is ideal as it will output a probability value between 0 and 1.
- Loss Function: Binary Crossentropy
- Optimizer: Adam optimizer, it adjusts learning rates during training.
- Learning Rate: Starting default learning rate is 0.001.