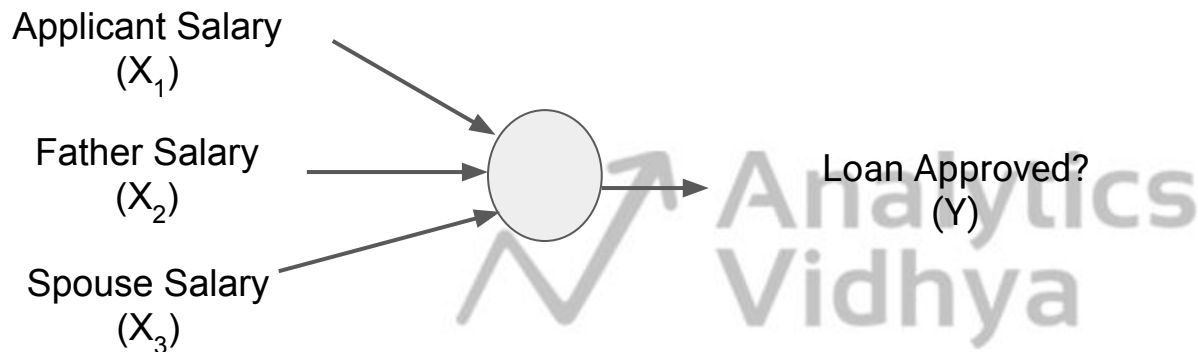
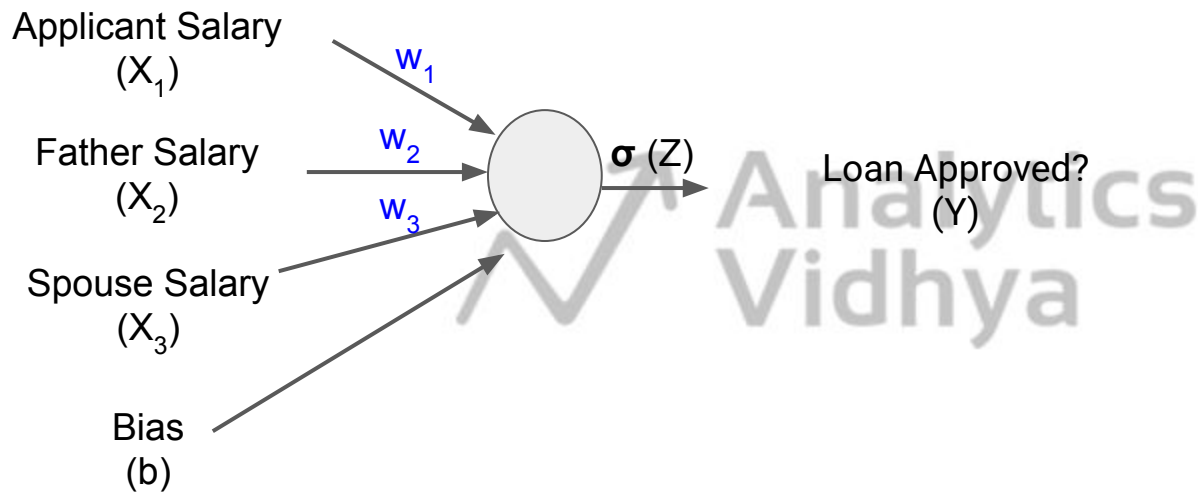


# Multilayer Perceptron

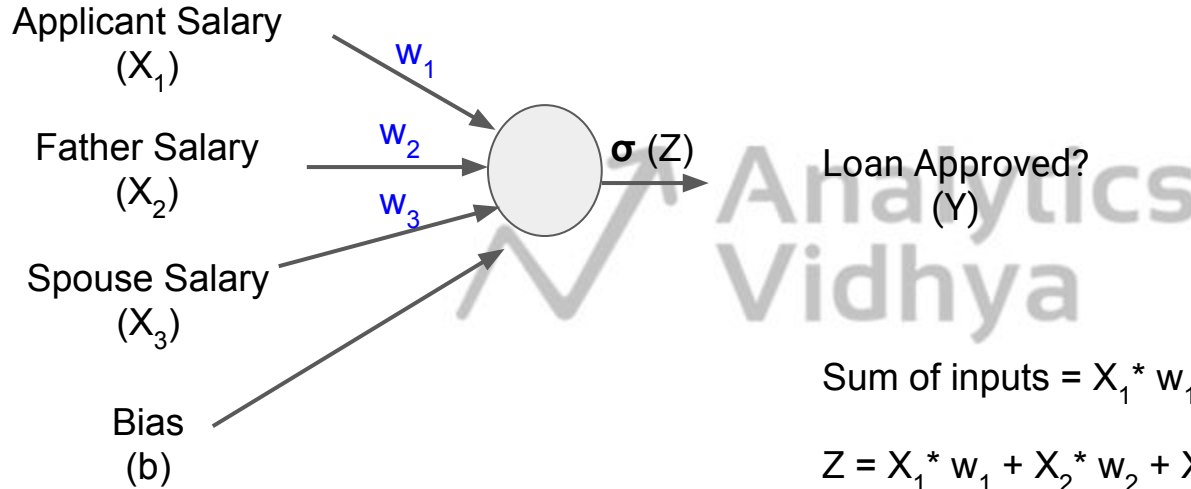
# Recap: Perceptron



# Recap: Perceptron



# Recap: Perceptron

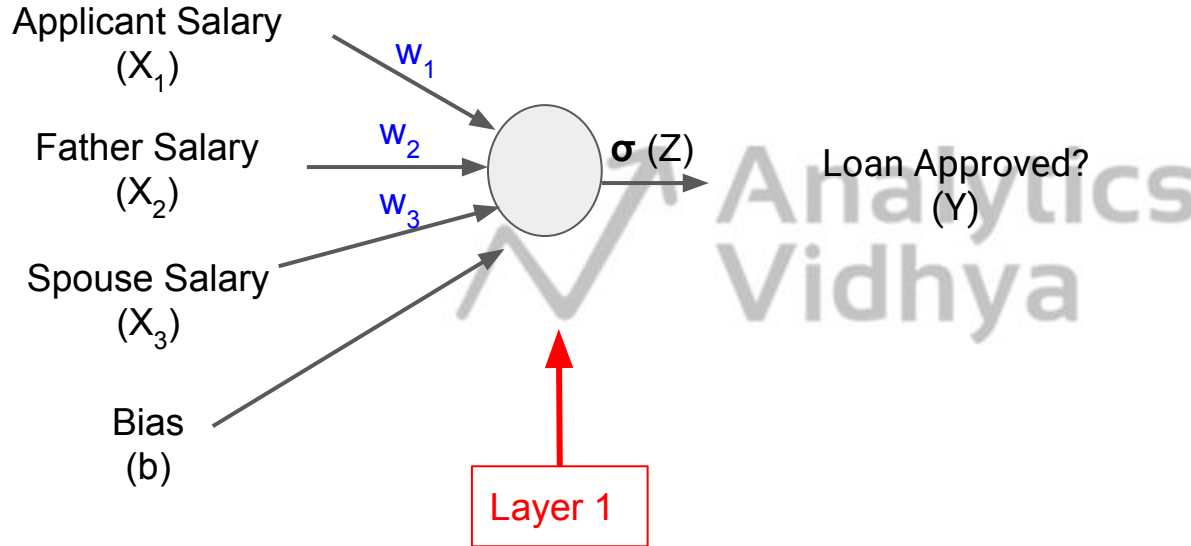


$$\text{Sum of inputs} = X_1 * w_1 + X_2 * w_2 + X_3 * w_3$$

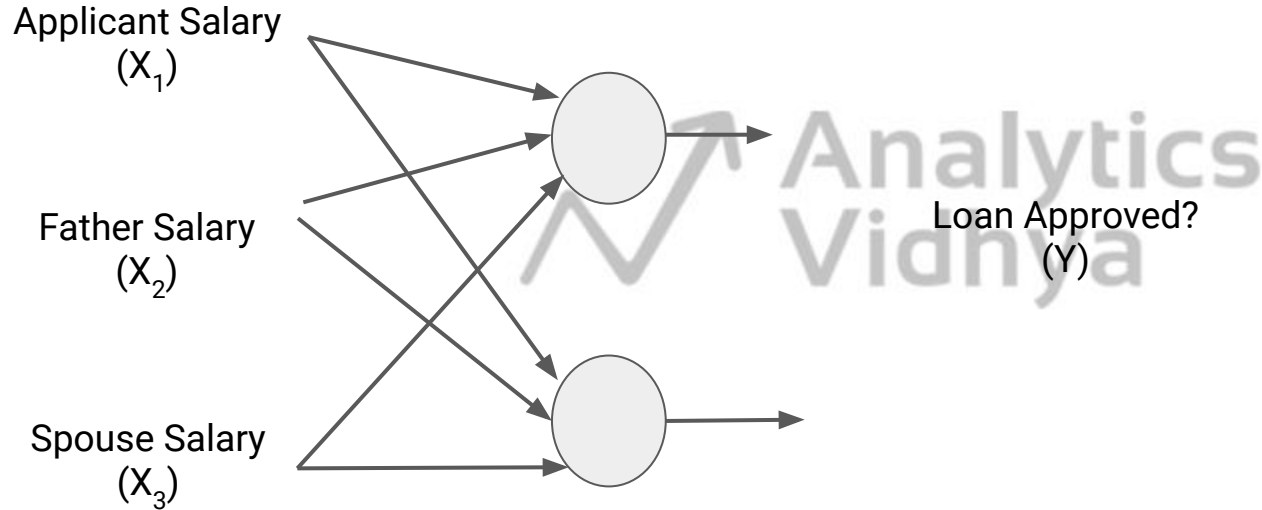
$$Z = X_1 * w_1 + X_2 * w_2 + X_3 * w_3 + b \text{ (bias)}$$

$$\hat{Y} \text{ (output)} = \sigma(Z)$$

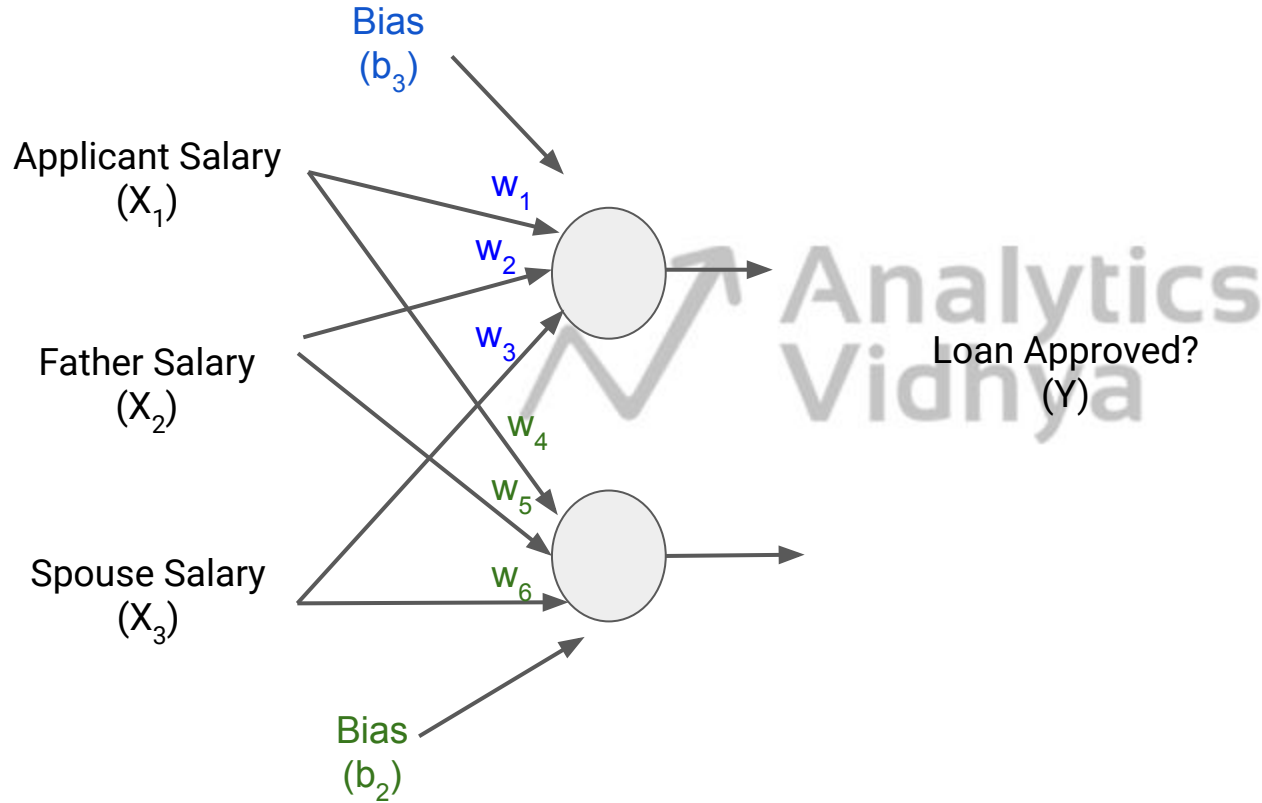
# Single layer Perceptron



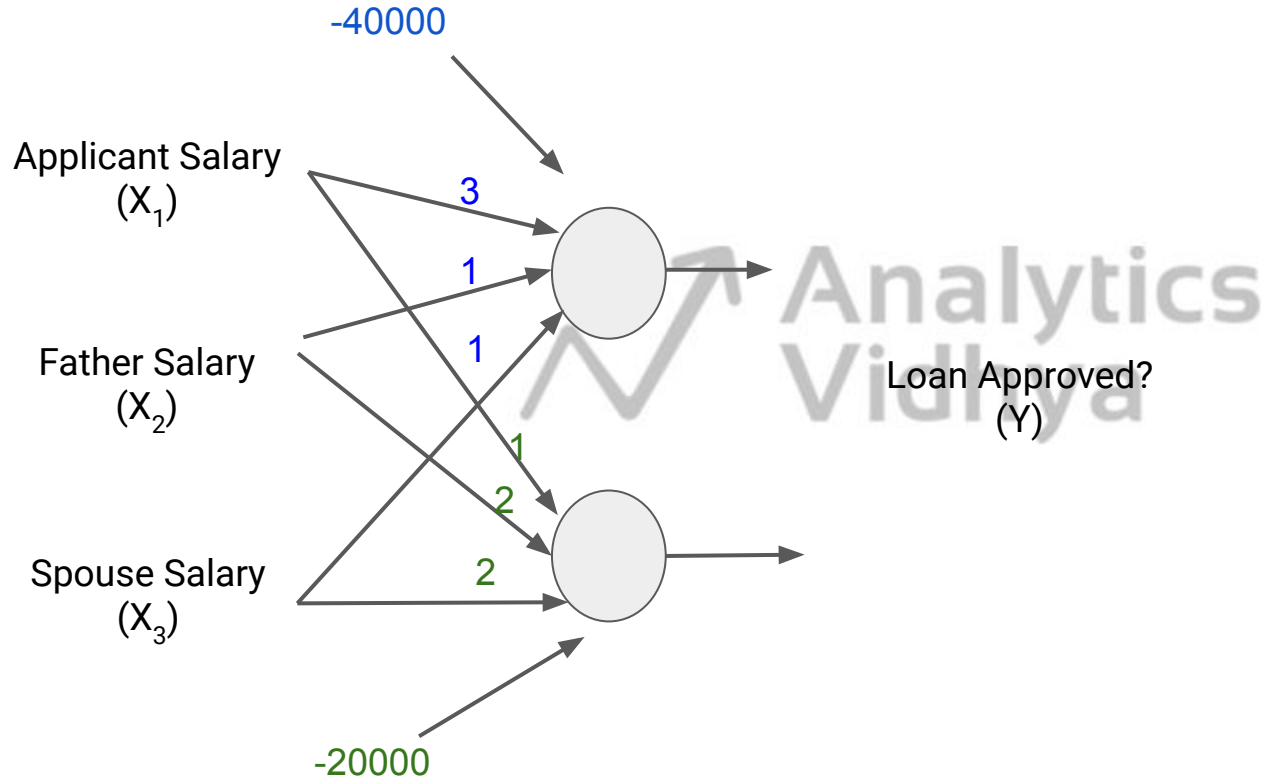
# Single layer Perceptron



# Single layer Perceptron

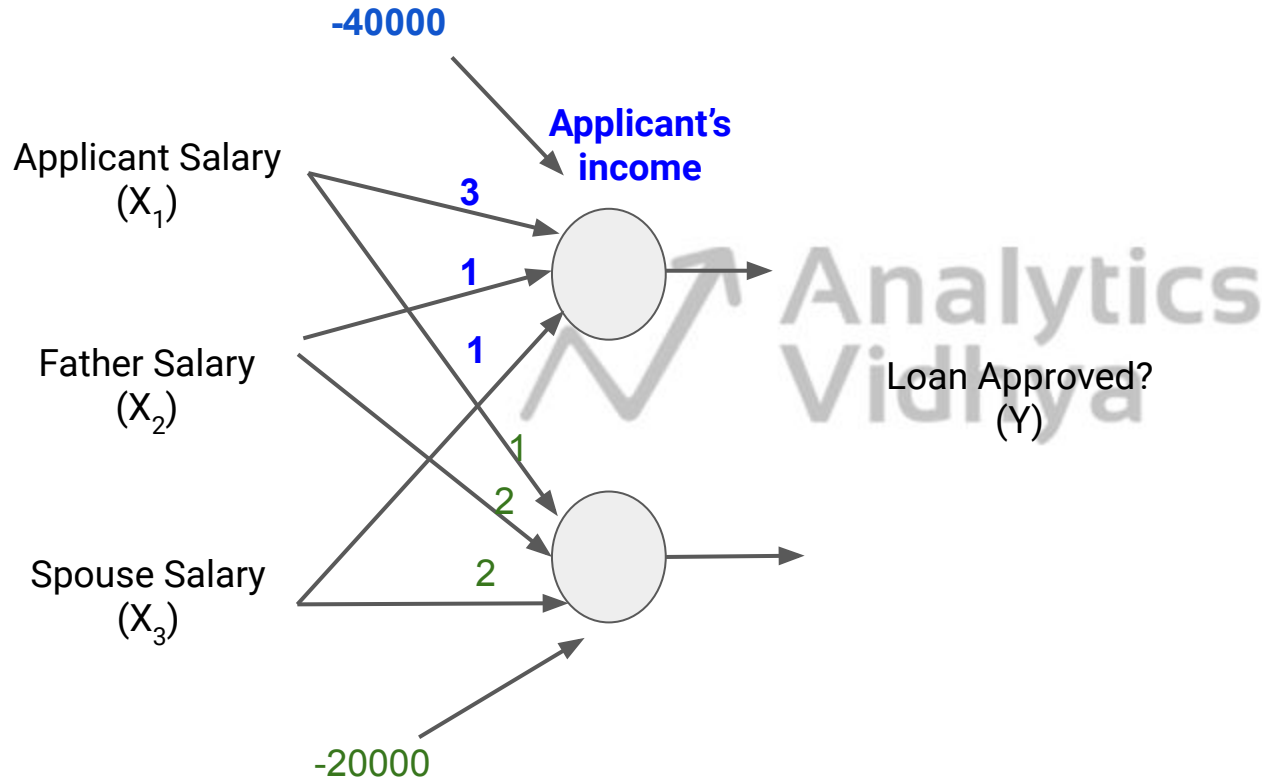


# Single layer Perceptron

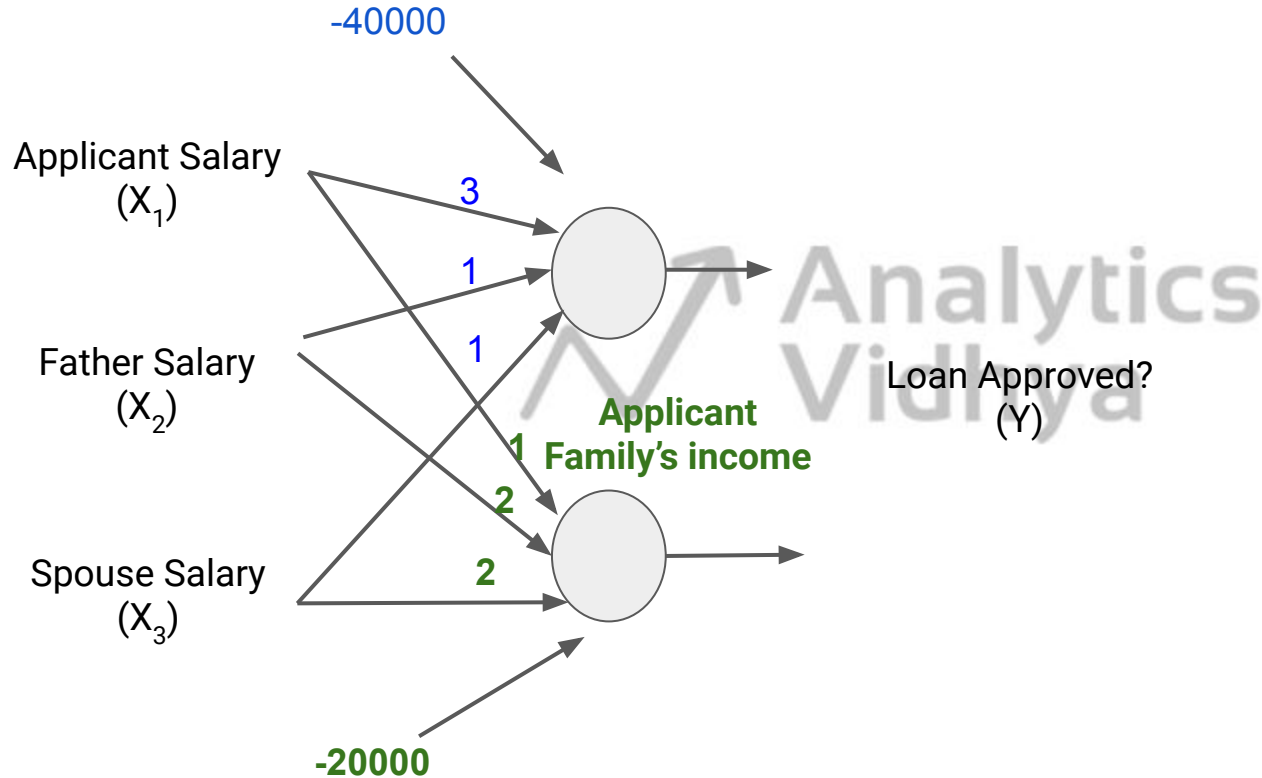




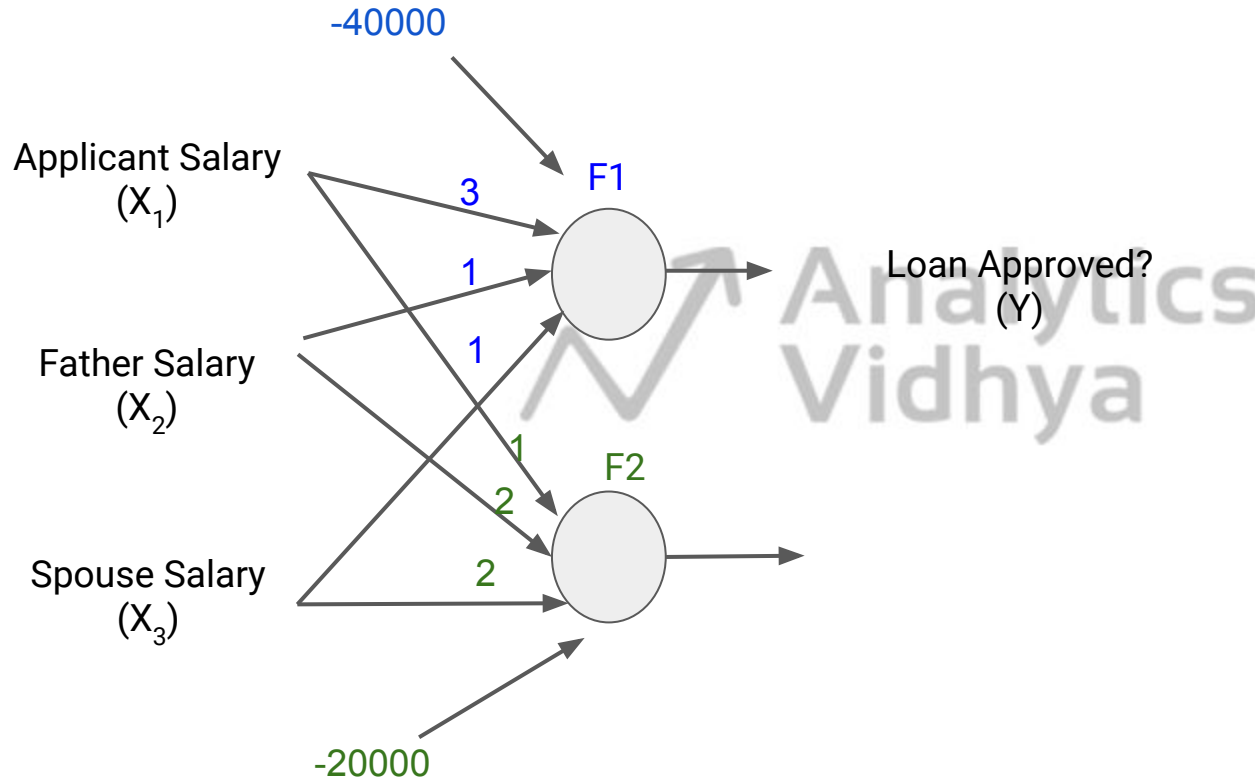
# Single layer Perceptron



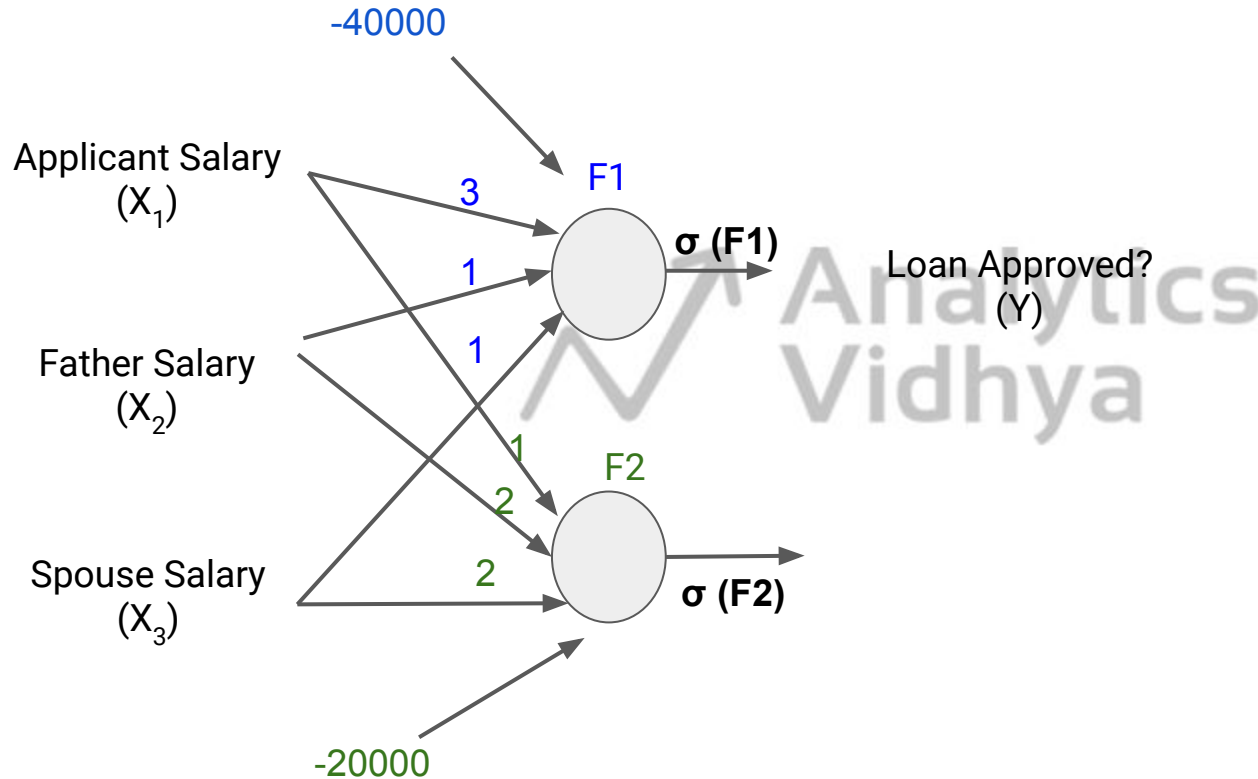
# Single layer Perceptron



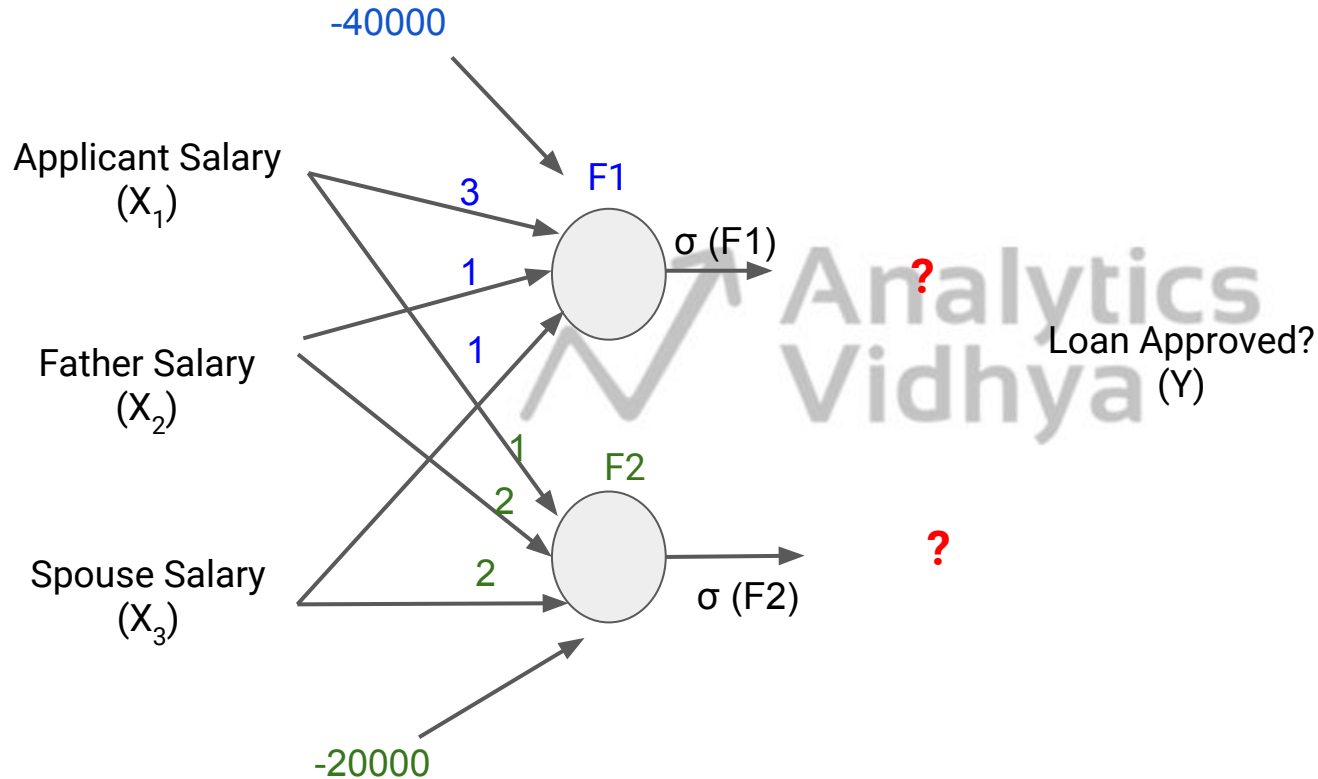
# Single layer Perceptron



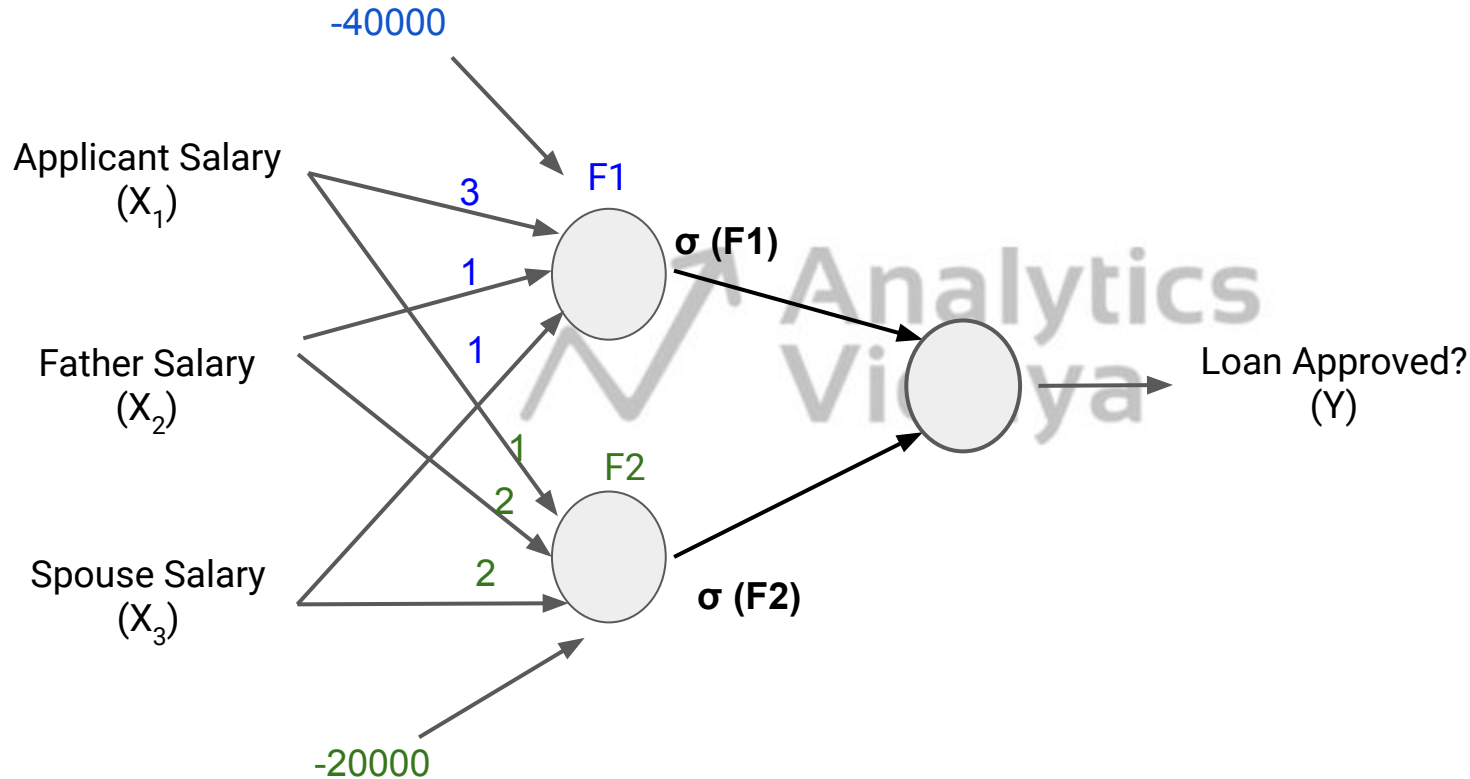
# Single layer Perceptron



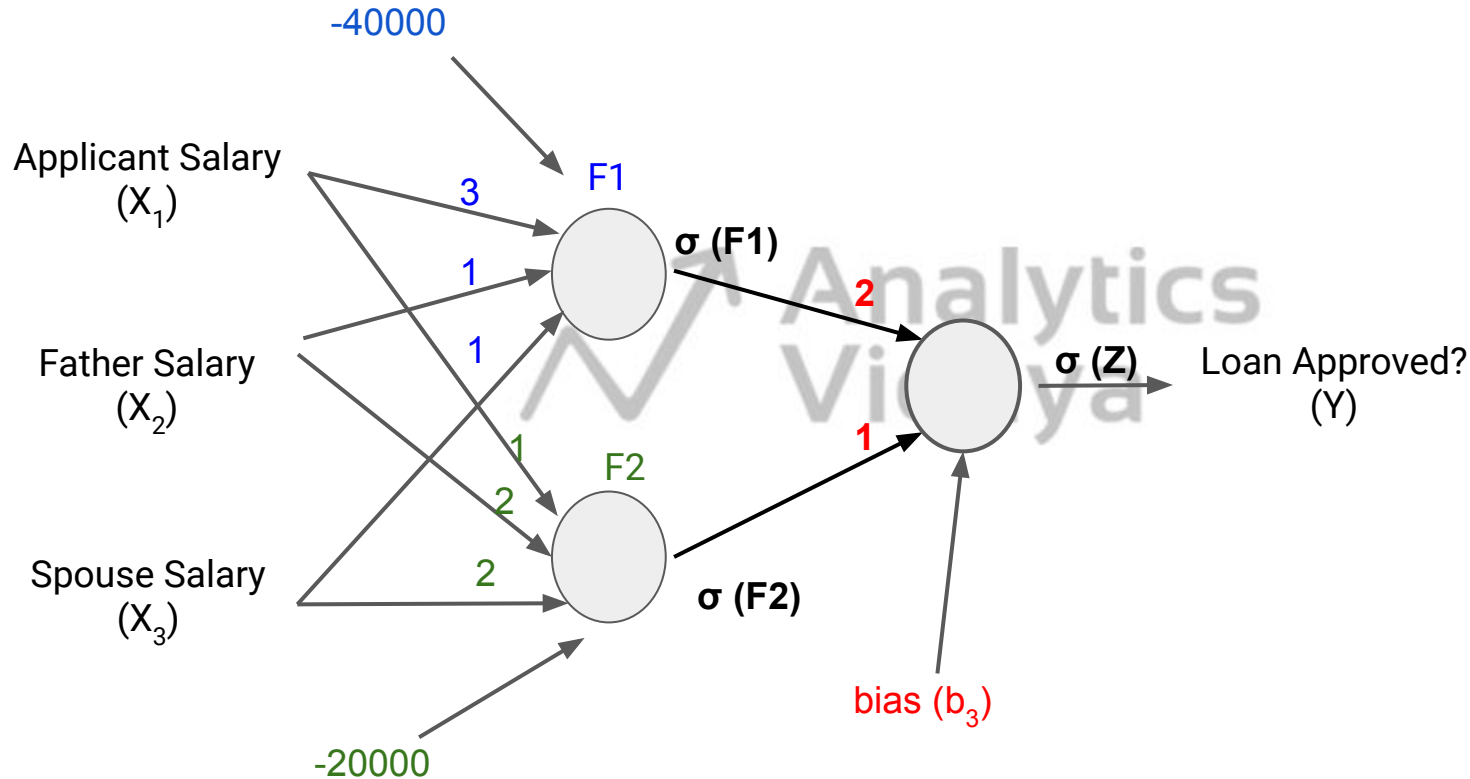
# Single layer Perceptron



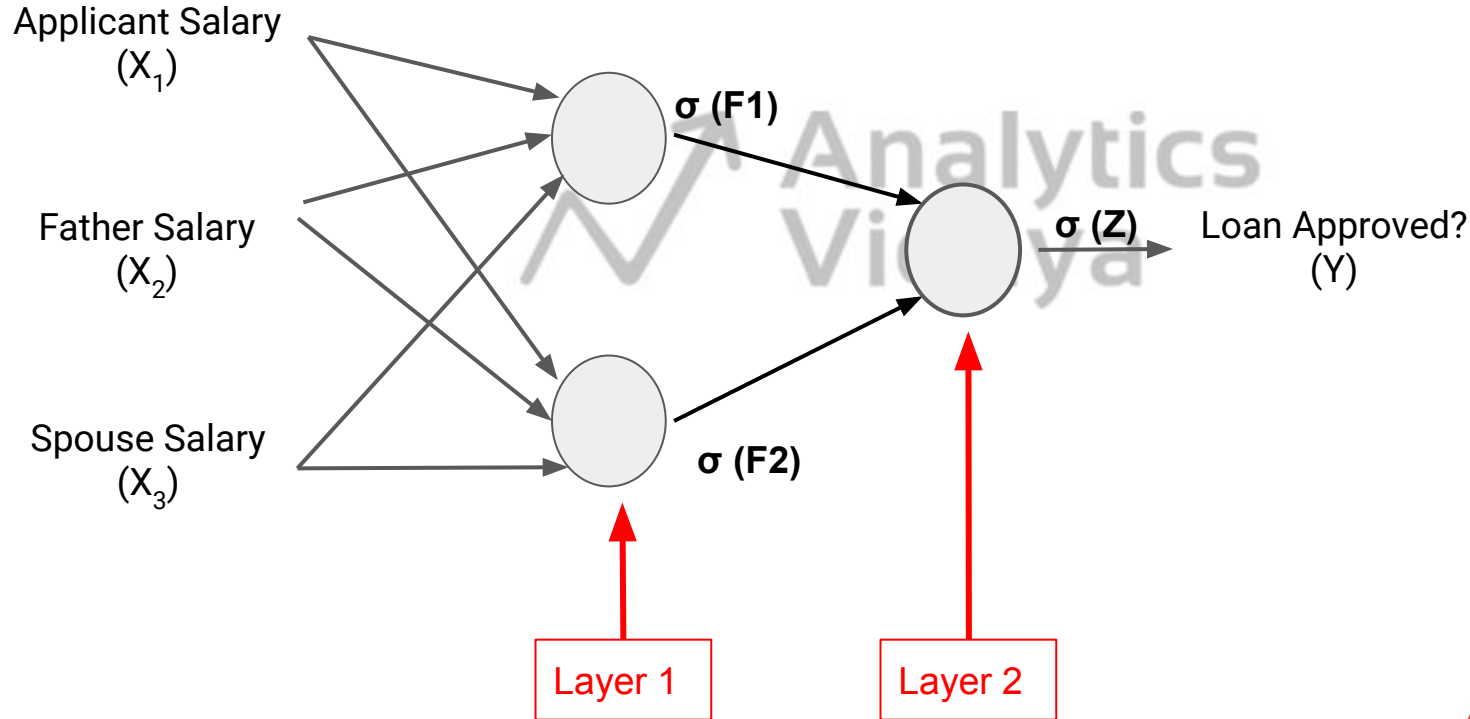
# Multi layer Perceptron



# Multi layer Perceptron

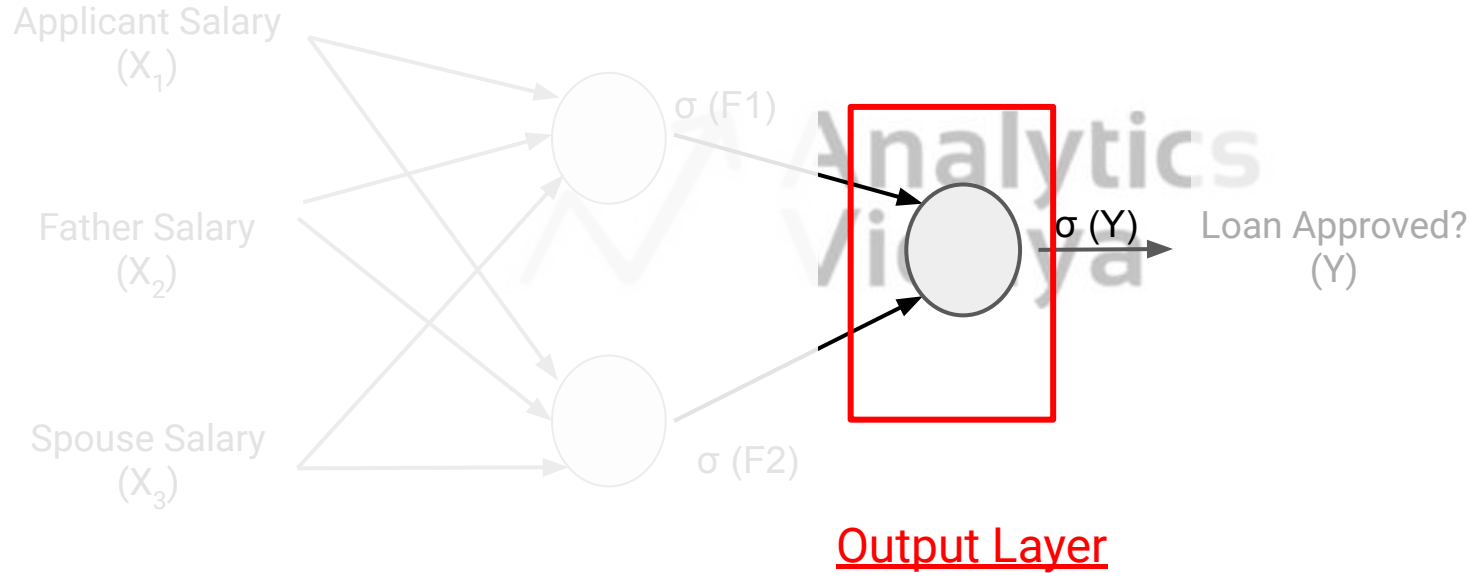


# Multi layer Perceptron

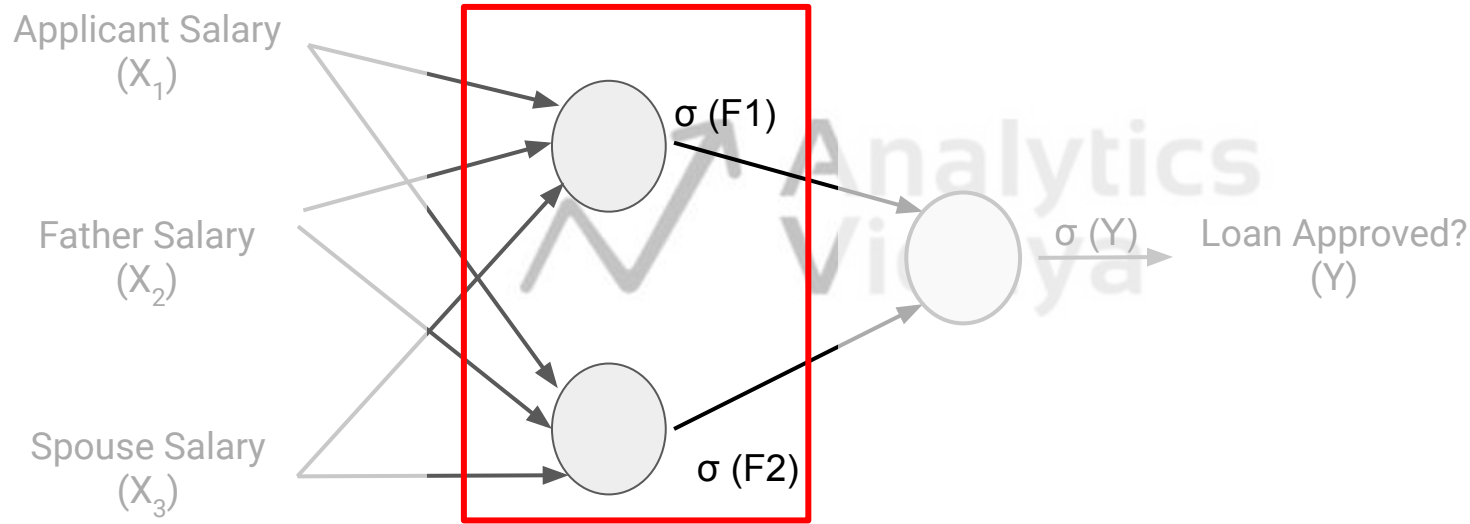




# Multi layer Perceptron

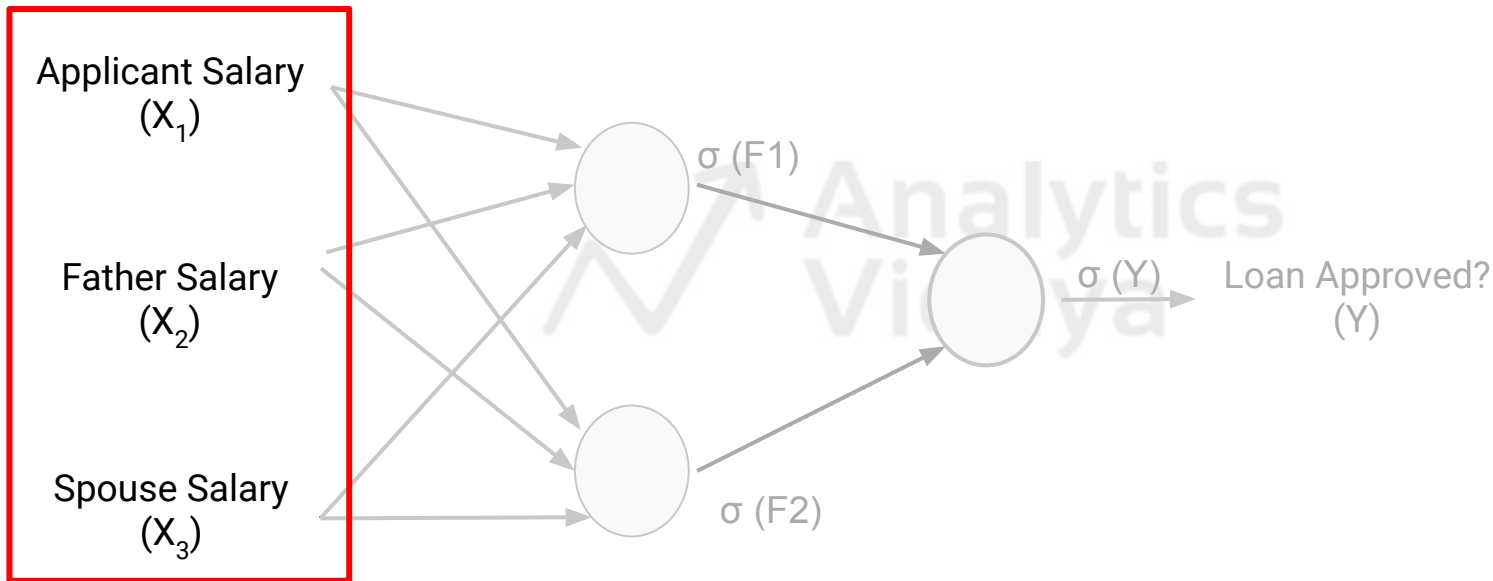


# Multi layer Perceptron



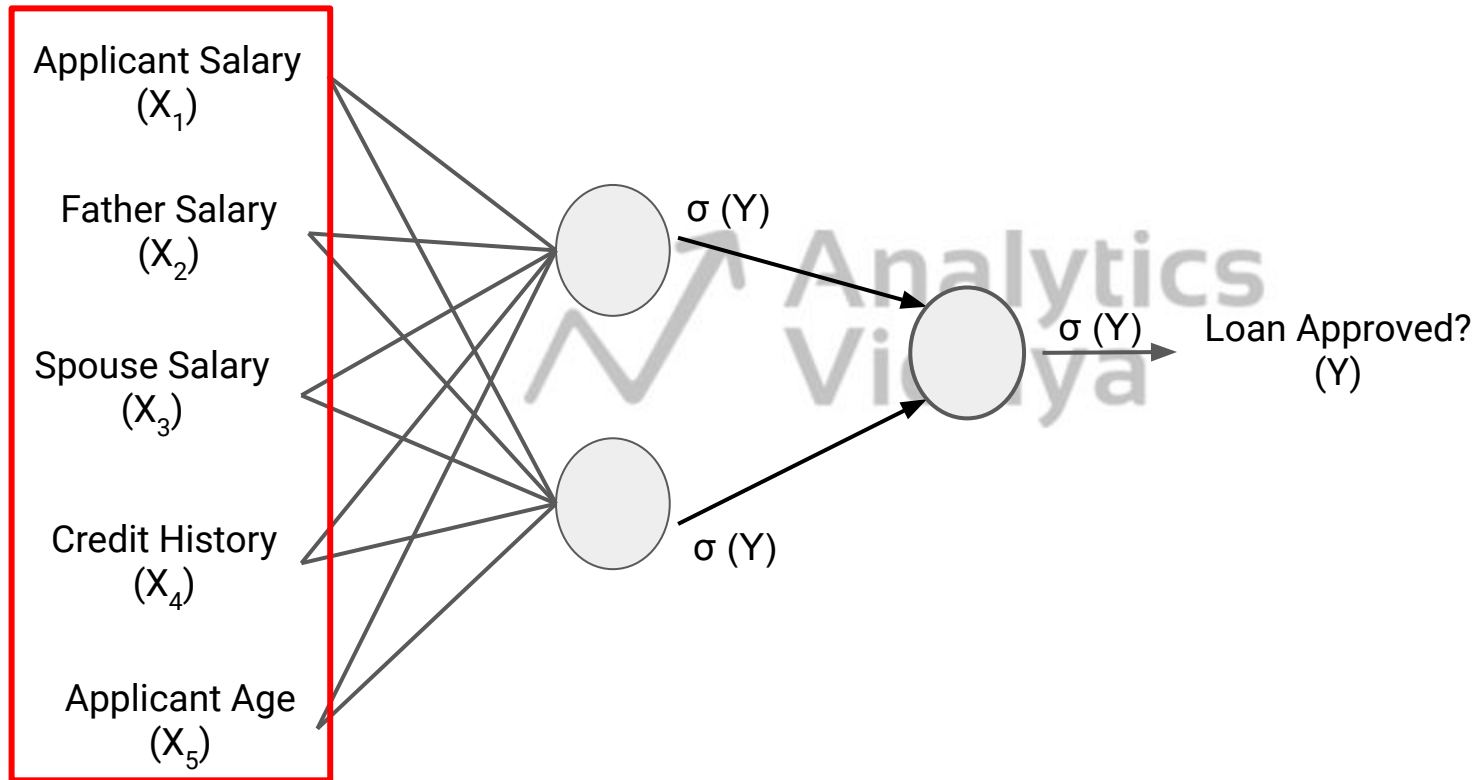
Hidden Layer

# Multi layer Perceptron



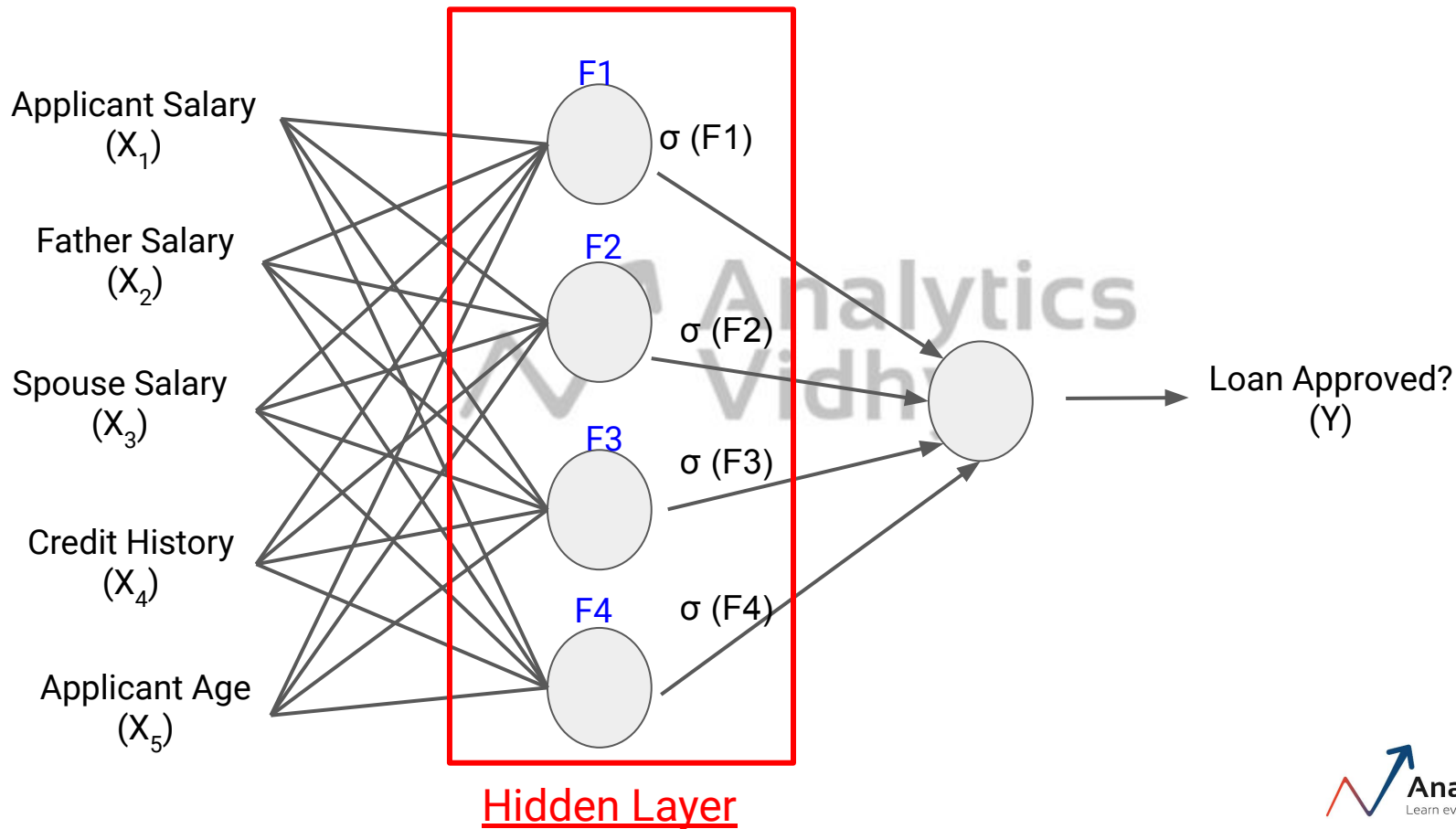
Input Layer

# Multi layer Perceptron



Input Layer

# Multi layer Perceptron



# Multi layer Perceptron

