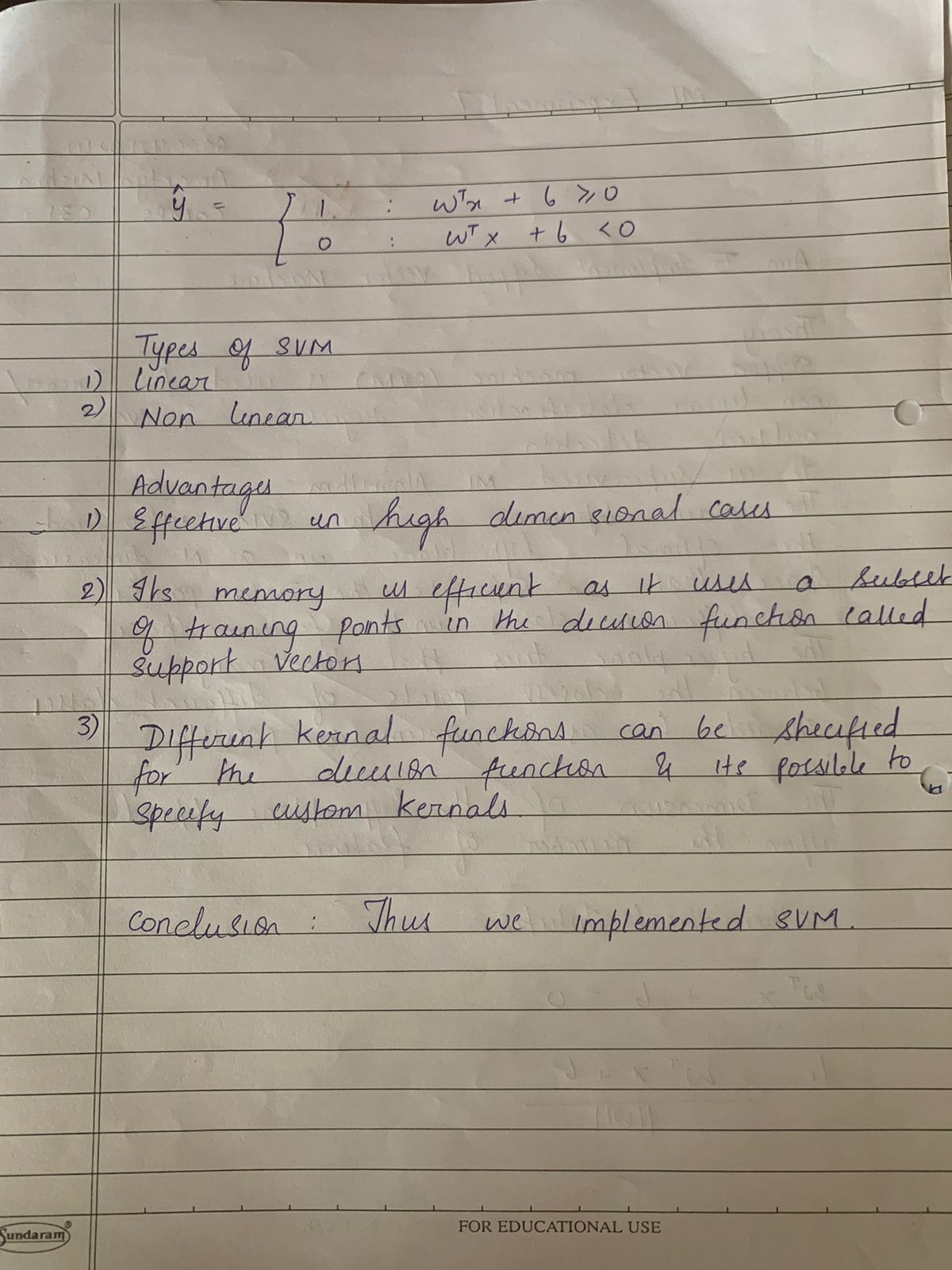
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COMPS – C31

ML Experiment 7

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**Implementation:**

from sklearn.datasets import load\_breast\_cancer

from sklearn.model\_selection import train\_test\_split

from sklearn.naive\_bayes import GaussianNB

from sklearn.metrics import accuracy\_score

data = load\_breast\_cancer()

X = data.data

y = data.target

X

X\_train, X\_test, y\_train, y\_test = train\_test\_split(X, y, test\_size=0.3, random\_state=42)

classifier = GaussianNB()

classifier.fit(X\_train, y\_train)

y\_pred = classifier.predict(X\_test)

accuracy = accuracy\_score(y\_test, y\_pred)

print(accuracy)

from sklearn.metrics import confusion\_matrix

confusion\_matrix(y\_test, y\_pred)