

PART 2

A) can be infinite size \mathbb{R}

\hookrightarrow i.e. OPEN UNIVERSE OF CLASSES (face recognition)

B) orthogonal to W

$$W \cdot x - W_0 = 0 \text{ on plane}$$

\Rightarrow positive values on one side, negative on other side

C) W and $-W$ do not yield the exact same classification

$$\hookrightarrow W \neq -W^2$$

\hookrightarrow different results yes?

D) TBA