## 程序代写ed优加 CS编程辅导

1. Suppose that f is a binary linear electric  $f(x; W, b) = W \cdot x + b$ , where  $W = \begin{bmatrix} 2 & -1 \end{bmatrix}$ , b = 0.5, and  $x = \begin{bmatrix} x_1 \\ x_2 \end{bmatrix}$ , i.e., the input Given a point  $x = \begin{bmatrix} x_1 \\ x_2 \end{bmatrix}$ , it will be classified into Class 1 if f(x) > 0, or Class 2 of

(1) since 
$$f(2,1) = [2]$$
 1 1 2 1 2 2 2 3 3 3 3 5 0, the point (2,1) is classified into Class 1;

Generate the adversarial sample for point (1,3) using the iterative gradient sign method. The parameters in this algorithm are given as (0,1) the step Szelid field (0,2)  $\epsilon = 3$  – the intermediate and final results need to be clipped if necessary, to make sure that they are in the  $\epsilon$ -neighbourhood of the original point, i.e.,  $|x_i - x_i'| \le \epsilon$ , i = 1, 2.

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2. Use automatic differentiation to talk until the particle of the contraction of the particle of the particl



$$v_{-1} = x_1$$

$$v_0 = x_2$$

$$v_1 = \underline{\qquad}$$

$$v_2 =$$
\_\_\_\_\_

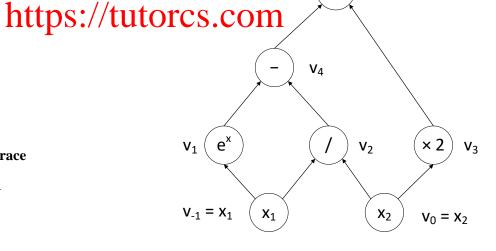
$$v_3 =$$
\_\_\_\_\_

$$v_4 = \underline{\hspace{1cm}}$$
 $v_5 = \underline{\hspace{1cm}}$ 

$$y = v_5$$

## Forward derivative trace

(1) For calculating 
$$\frac{\partial y}{\partial x_1}$$



 $V = V_5$ 

**V**<sub>5</sub>

$$\dot{v}_5 = \underline{\qquad}$$
 $\dot{y} = \dot{v}_5$ 

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(2) For calculating  $\frac{\partial y}{\partial x_2}$ 

$$v_{-1}^{\cdot} = \dot{x_1}$$
 $\dot{v_0} = \dot{x_2}$ 
 $\dot{v_1} = \underline{\qquad}$ 
 $\dot{v_2} = \underline{\qquad}$ 
 $\dot{v_3} = \underline{\qquad}$ 
 $\dot{v_4} = \underline{\qquad}$ 
 $\dot{v_5} = \underline{\qquad}$ 
 $\dot{y} = \dot{v_5}$ 



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