

$$L_S(w^* + \mu \hat{u})$$

$$\mu$$


The figure shows a plot of the function  $L_S(w^* + \mu \hat{u})$  against  $\mu$ . The horizontal axis is labeled  $\mu$  and the vertical axis is labeled  $L_S(w^* + \mu \hat{u})$ . The function is represented by a green horizontal line for  $\mu \leq 0$  and a blue line for  $\mu \geq 0$ . The two lines meet at an orange dot on the horizontal axis at  $\mu = 0$ , indicating that the minimum value of the function is achieved at  $\mu = 0$ .