

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202511043119 A

(19) INDIA

(22) Date of filing of Application :04/05/2025

(43) Publication Date : 23/05/2025

(54) Title of the invention : A BROWSER EXTENSION FOR REAL-TIME PHISHING THREAT PREDICTION USING NLP

(51) International classification :H04L0009400000, H04L0051212000, G06N0005045000, G06F0040300000, G06F0040205000

(86) International Application No :NA  
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

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(57) Abstract :

The present invention discloses a browser extension (101) for real-time phishing threat prediction using Natural Language Processing (102). The extension analyzes textual content, behavior patterns, and webpage context to assign threat probabilities (103), alert users, and highlight suspicious phrases. It operates locally to preserve privacy and includes a user feedback loop (104) to refine future predictions. This system enables dynamic and explainable protection against evolving phishing threats while maintaining lightweight, real-time performance across multiple browsers and languages.

No. of Pages : 14 No. of Claims : 5