



उपभोक्ता मामले विभाग
DEPARTMENT OF
CONSUMER AFFAIRS



Dark Patterns Buster
Hackathon 2023



Dark Patterns Buster Hackathon (DPBH-2023)

Round 3 Grand Finale @ IIT(BHU), Varanasi

(Feb.17, 2024)



Coimbatore Institute
of Technology

ML SENTINEL SQUAD

T Bala Saatvik
K Hariharan
T Kavim
S Kaviyarasu
R Koushic

Browser Extension

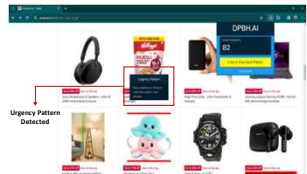


Mobile Application

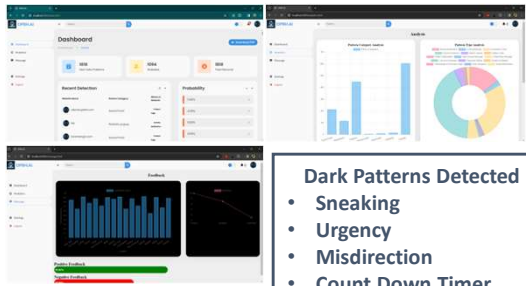
Browser Extension UI



Dark Patterns



Dashboard



Technology Stack



Dark Pattern Importance Hierarchy

Sneaking

Urgency

Misdirection

Count Down Timer

Privacy Terms Flagging

Scarcity

Social Proof

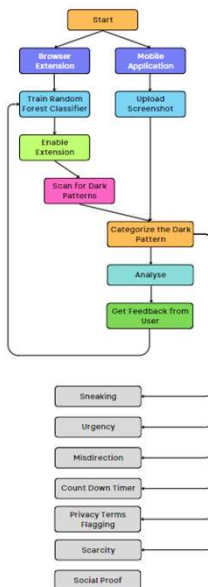
Dark Patterns Detected

- Sneaking
- Urgency
- Misdirection
- Count Down Timer
- Privacy Terms Flagging
- Scarcity
- Social Proof

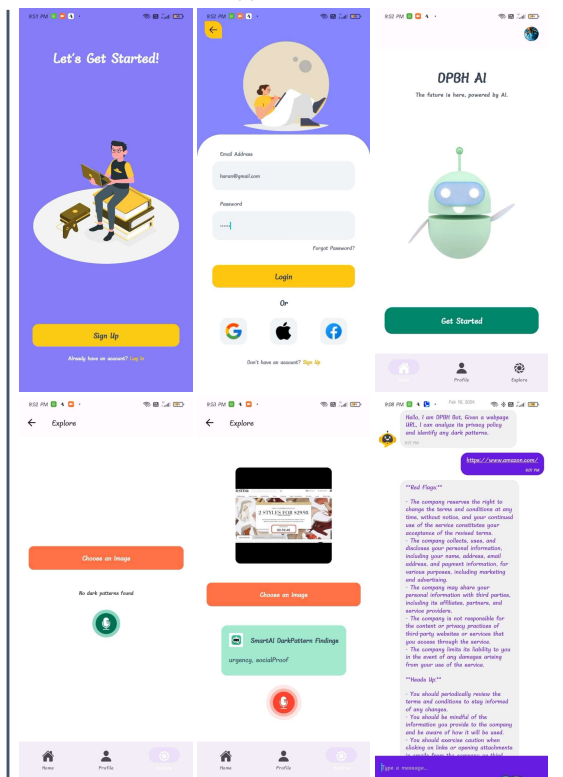
Features

- Detecting and Categorising Dark Patterns
- Blurring Dark Patterns
- Analysing the History of Dark Patterns
- Receiving Feedback from Users
- Retraining the model and Improving the Accuracy
- Gemini API to analyse Screenshots
- NLP Voice Enabled Bot
- Privacy Policy Analysis

Workflow



Mobile App UI with Chatbot



Browser Compatibility



OS Compatibility



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