Date: 2024/04/10

Thesis Topic:

Using Al and Web Crawling Techniques for Dynamic Precision Recommendation in E-commerce Platforms: A Case Study of the PChome E-commerce Platform



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Software Engineering Midterm Instructor: Min yuh Day

Overview

Research Background Research Motivation Research Objective Expected Research
Contributions and
Managerial Implication

Research Background



"In 2023, 50.76% of the population aged 18 and above had the habit of shopping online. "

-Taiwan Network Information Center, 2023



Employ recommendation systems to suggest relevant products to users, aiming to enhance user experience and platform performance.



Research Motivation

- products continues to increase
- users' personalized needs grow
- recognizing the limitations of PChome's recommendation systems

PChome's website performance

Total Visits (i)
Last Month Change (i)
4.1%

https://www.similarweb.com/website/24h.pchome.com.tw/



Apple cellphone Q



No.1 USB 💢

No.2 Cellphone 🗸

https://24h.pchome.com.tw/search/? q=%E8%98%8B%E6%9E%9C%E6%89%8B%E6%A9%9F

Pages per Visit (i)

5.29

Avg Visit Duration (i)

O0:04:52

Software Engineering Midterm
Individual Presentation

Bounce Rate (i)

49.9%

Research Objective

OBJ. 1

Based on input keywords, develop a prototype of a precision recommendation system using AI technique.

OBJ. 2

Incorporate a dynamic recommendation system mode based on user behavior within the platform.

OBJ. 3

Validate that through the recommendation system, the platform performance and effectiveness can be improved.

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Expected Contributions Managerial Implication

Expected O1 Research Contributions

Providing theoretical and practical value for the research on recommendation systems and the development of ecommerce platforms, thereby promoting the advancement of the e-commerce industry.

Managerial 02 Implication

- Enhance user experience that can increase sales and revenue
- Operational efficiency
- Data-driven decision making

Software Engineering Midterm Individual Presentation

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