

# Demonstration Winter Shop - Intelligent Fashion E-commerce Platform

ASN 3 - Milestone II Web-based Data Application

COSC 3801/3015  
Advanced Programming for  
Data Science

DS-G3:  
To Minh Tuan s4055570  
Tran Viet Duc s4106117  
Huynh Huu Tri s4079860  
Tran Minh Quang s4098857

01 - Introduction

02 - Review Creation

03 - Browse Feature

04 - Conclusion



# 01 - Introduction

- Advanced search functionality with intelligent algorithms
- Machine learning integration for review recommendations
- Enhanced user experience with smart suggestions

Frontend



Flask  
Javascript  
HTML +  
CSS



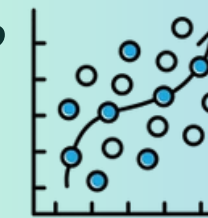
Backend:  
Flask  
SQLAlchemy  
cikit-learn

ML Model

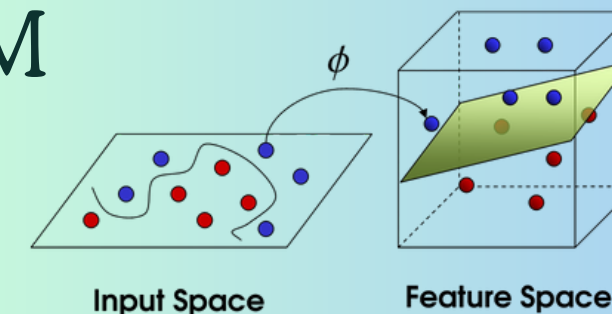
LightGBM



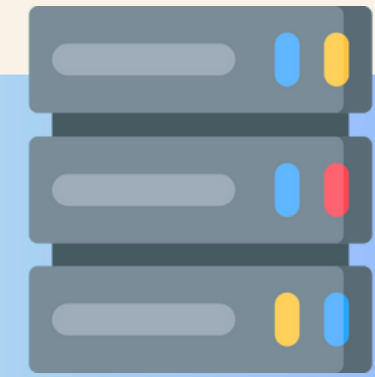
Log Reg



SVM

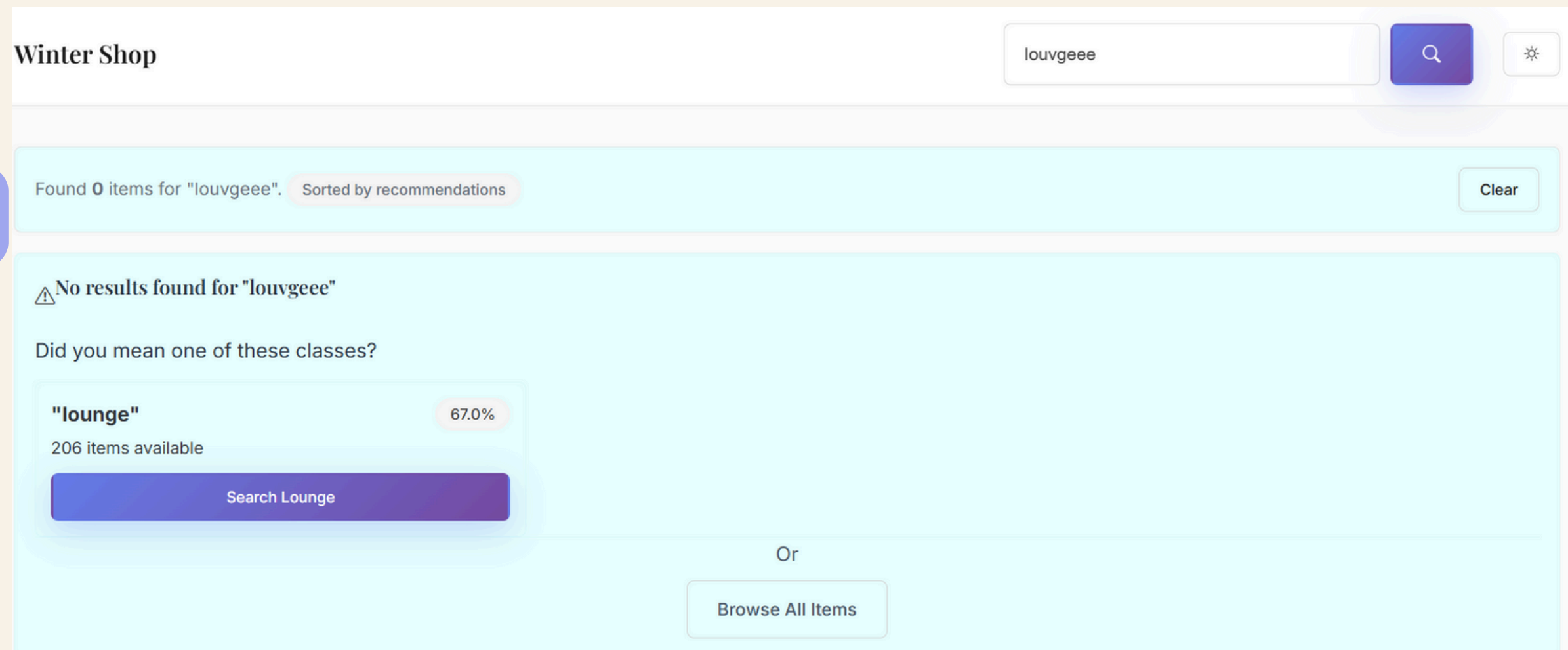


TF-IDF  
Weighted  
Vectors



# 02 Advanced Search Architecture

- *Exact Class Matching*
- *TF-IDF Vectorization*
- *Intelligent Typo Correction*
- *Multi-Word Query Processing*





# 3. Machine Learning Integration

Title Review

Review Text

AI-Powered Review  
Recommendation System

Binary prediction  
Recommend (1) vs Not Recommend (0)

### Write a Review

Share your experience to help other shoppers

Overall Rating

★★★★★

Click to rate (5 = excellent, 1 = poor)


Review Title (optional)

Summarize your experience...

Your Review \*

Share details about fit, quality, style, and overall experience...

Be specific and honest to help others make informed decisions 0/2000

**AI Recommendation**

Our AI will suggest a recommendation based on your review

— Write your review first —

Get AI Suggestion

Write at least 10 characters to enable AI suggestion

Publish Review

Cancel

Your review will be published immediately and help other shoppers make informed decisions.

Thank you  
for listenning

