

UBS Challenge

Datathon 2024

Task



Valuable Insights into
Future Success



Monitor Brand Perception



Instagram Data

Data Understanding

Data Understanding

Data Cleaning & Preprocessing

- Data Imputation
- Data Normalization
- Duplicate Rows
- ...

Assumptions on Data

- Representative Power of Brand Popularity
- Acquisitions
- ...

Feature Engineering & Augmentation

- Transform data into marketing measures

Modelling Approach

Model Selection

1

Baseline

2

K-Means w/ Surrogate

3

Isolation Forest

Model Enhancement

Actionable Insights

Understanding Social Media Impact

Brand Engagement Indicators

- Exceptional performance:
 - Strong brand
 - Loyalty
- Chance:
 - Future profitability
 - Growth opportunities

Risk Identification

- Poor Performance:
 - Weak brand
 - Emerging crises
- Warning:
 - Enable proactive risk management

Market and Industry Trends

- Reveal broader consumer behavior shifts and market trends
- Useful for enhancing market models
- Integration with LLMs analyzing news/sentiment

Case Studies

Finding Unicorn

- High Engagement Leader
 - Visual Appeal
 - Brand Image
- Action
 - Enhance visual content strategies
 - Cultivate unique brand

Funko

- Consistently Good Performer
 - Established brand presence
 - Diverse Product Range
- Action
 - Leverage brand heritage and product diversity
 - Strategic collaborations to refresh brand image

Powerade

- Notable Low Performer
 - Underwhelming Social Engagement
 - High Marketing Costs
 - Contrast with Parent Company (Coca-Cola)
- Action
 - Reevaluate social media strategies
 - Lifestyle-oriented
 - Interactive campaigns