



From Emotion to Prediction

Using Data to Bridge the Beauty Gap

1

From Knowledge to Application

Applying my background in a new end-to-end project.

2

Curiosity-Fueled Insight

Exploring what drives satisfaction and regret in products.

3

Beauty Reviews = Signals

Emotional, personal data with hidden insights.

4

The Big Question

Can we model reviews as signals, not just noise?

5

Mission

Use data to bridge the gap between **expectation** and **experience**.

PG

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The Spark Behind the Project

1

Not Just Reading — Understanding

I set out to build a model that doesn't just read reviews, it *understands* them.

2

Predicting Experience

Predict product ratings based on what customers write — and *who they are*.

3

Inclusive Features

Factoring in **skin tone** and **skin type** — traits often overlooked by brands.

4

Beyond Tech

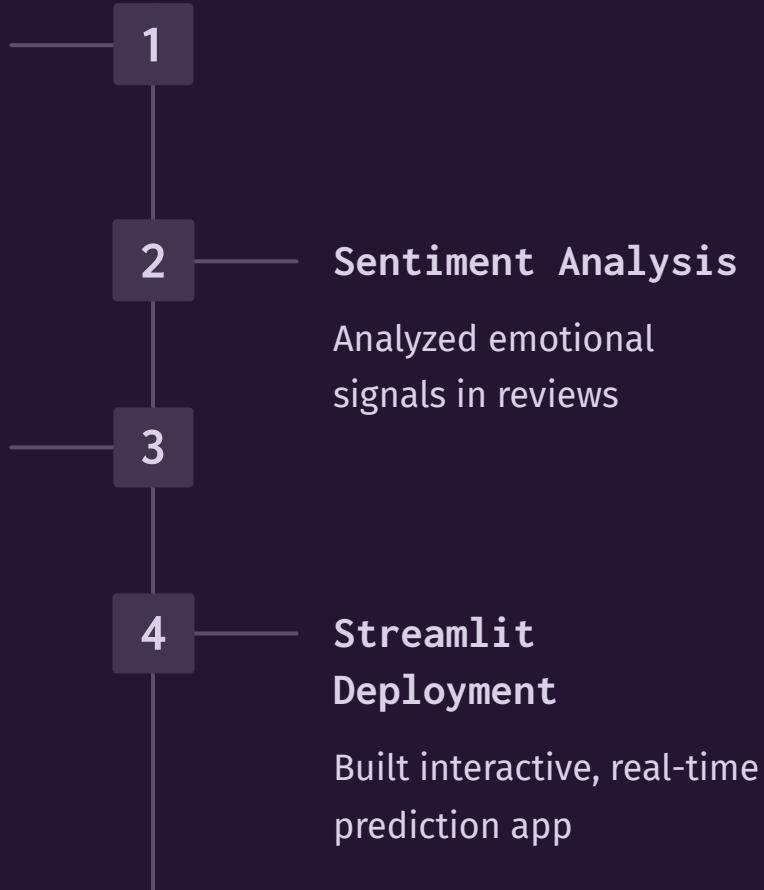
This wasn't just a machine learning project.

From Data to Deployment

- **40,000+ reviews**
- combined title and body for richer text input.

Model Testing

Tried Random Forest and Deep Neural Network



Performance Metrics

MAE (Stars)

0.54

RMSE

0.67

R-squared

0.78