

Leveraging Al to Understand Tourist Feedback

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Why This Project?

- Objective: Analyze tourist reviews to improve visitor experience
- Scope:
 - Apply IBM Granite for Analysis
 - Focus on sentiments, praises, complaints
- Tools: Google Colab, IBM Granite

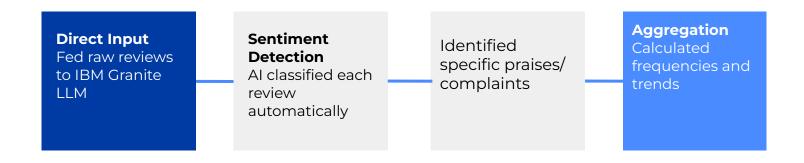
Dataset

Source: Google Maps Gunung Bromo Reviews (self-collected) <u>Link Dataset</u>

Format: .xlsx (Excel spreadsheet)

Reviewer	Rating	Review
Victoria Adeline Ayu	5,0	dingin banget hawanyasuwejukanginnya juga menyejukkansayangnya ga kuat jalan mendaki, jadi hanya menikmati pemandangan sekitar dari warung aja sambil makan indomie3x ke sana, dengan lokasi yang berbeda ²
zannu fathony	5,0	pemandangan matahari terbit yang menakjubkan, tidak pernah bosan mengunjungi tempat ini.
Rica Magareta	4,0	Pemandangannya sangat bagus dan Anda dapat melakukan banyak hal di sini Pergi ke bukit Kingkong untuk melihat matahari terbit, menunggang kuda tempat yang sangat indah

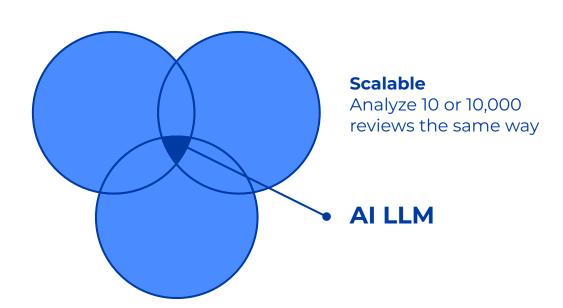
How AI Works on Raw Data



Why Use AI for This?

Handles raw text No need for manual tagging/cleaning

Context-aware
Understands idioms (e.g.,
"worth the hike!")



Key Finding

What Tourists Really Think about Bromo



Sentiment

- Positive: 86.0%

- Negative: 0.8%

- Mixed: 13.2%



Top Praises

- Sunrise
- Beauty
- Natural



Top Complains

- Fog
- Facilities
- High

Recommendations

- 1. Leverage the positive sentiment (86.0%) in marketing materials.
- 2. Highlight 'sunrise' in your marketing as it's the most common positive aspect.
- 3. Focus on improving 'fog' as it's the most common complaint.
- 4. Consider implementing a structured feedback system to better capture positive and negative aspects.
- Train staff to encourage guests to provide specific feedback about what they enjoyed
- If praise detection remains low, manually analyze a subset of positive reviews to improve the AI's extraction capability.

Conclusion

- Visitors love the sunrise but hate the fog
- 2. Al can process messy data and find patterns
- Next Step: Deploy real-time feedback analysis



Conclusion

- 1. Visitors love the **sunrise** but hate the **fog**
- 2. Al can process messy data and find patterns
- 3. Next Step: Deploy real-time feedback analysis

Thanks

GitHub:

https://github.com/shofawj/Capstone-GB romo-IBMxHACKTIV8