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Open & Closed Predictions

The closed places problem

When travelling, users need to know if a place is **open** (= in business) **or not**.

Our problem:

How do we know if a place is open and not closed?

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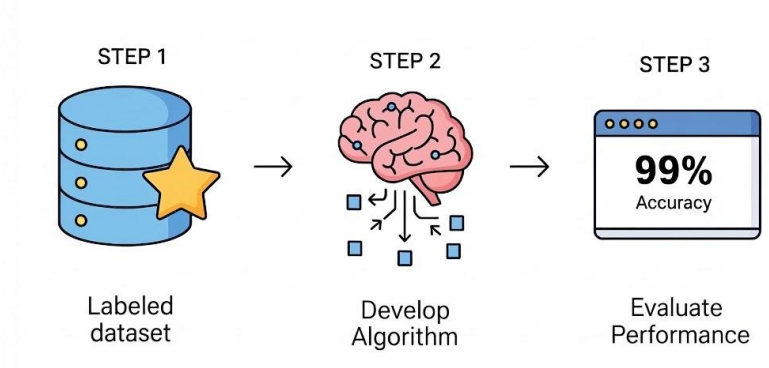
*Note that we define open and closed only for places that exist in the real world and exclude any junk places etc. from that definition

Your Mission



Goal: Build a model that predicts if a place is open or closed

How: Use a place's attributes and comparison to other sources to check if a place is open or not;
Keep in mind the solution must scale for >100M places

Data: Use a pre-labeled sample of ~5k places to train a model

Research Questions

Performance: What type of model achieves highest prediction accuracy?

Driving Factors: Which features are most relevant? How do you trade information gain vs. scalability?

Generalization: How does performance vary across different categories?

Impact & Deliverables

You'll deliver

1. Analysis report detailing performance of different models architectures.
2. Evaluation of price-to-performance ratio for different kinds of features
3. Final recommendation on model Overture should use

You'll learn

- Applied AI benchmarking, MLOps trade-offs
- How to make a data-driven case for a core technology choice