A photograph of an airplane on a tarmac during sunset. The sky is a gradient from yellow to orange. Passengers are walking with luggage in the foreground. The airplane's body is visible on the left, and its wing and engine are in the center. A small truck is on the right.

À l'heure

MAIS Hacks 2021

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Inspiration...

Idea

The screenshot shows a Mac OS X desktop environment with a window open to the Kaggle website. The window title bar includes standard OS X icons for window control and a lock icon indicating the site is secure. The URL 'kaggle.com' is visible in the address bar.

The left sidebar of the Kaggle interface features a navigation menu with the following items:

- Home
- Competitions
- Datasets
- Code
- Discussions
- Courses
- More

The "Datasets" item is currently selected, highlighted with a grey background. At the top right of the main content area, there are "Sign In" and "Register" buttons.

The main content area displays a dataset card for "2019 Airline Delays w/Weather and Airport Detail". The card includes the following information:

- Dataset**: A large image of an airplane flying through clouds.
- Title**: 2019 Airline Delays w/Weather and Airport Detail
- Description**: Classification dataset which includes aircraft, weather, airport, and employment
- Author**: Jen Wadkins • updated a month ago
- Links**: Data, Tasks (2), Code (1), Discussion, Activity, Metadata
- Actions**: Download (4 GB), New Notebook, More

Below the card, there are sections for Usability (10.0), License (U.S. Government Works), and Tags (classification, beginner, binary classification, aviation).

The main content area also contains sections for Description, Context, and Content, with detailed text descriptions of the dataset's purpose and structure.

At the bottom left of the main content area, there is a "View Active Events" button.

Idea

~500,000

Data points used for training

Idea

Decision Tree

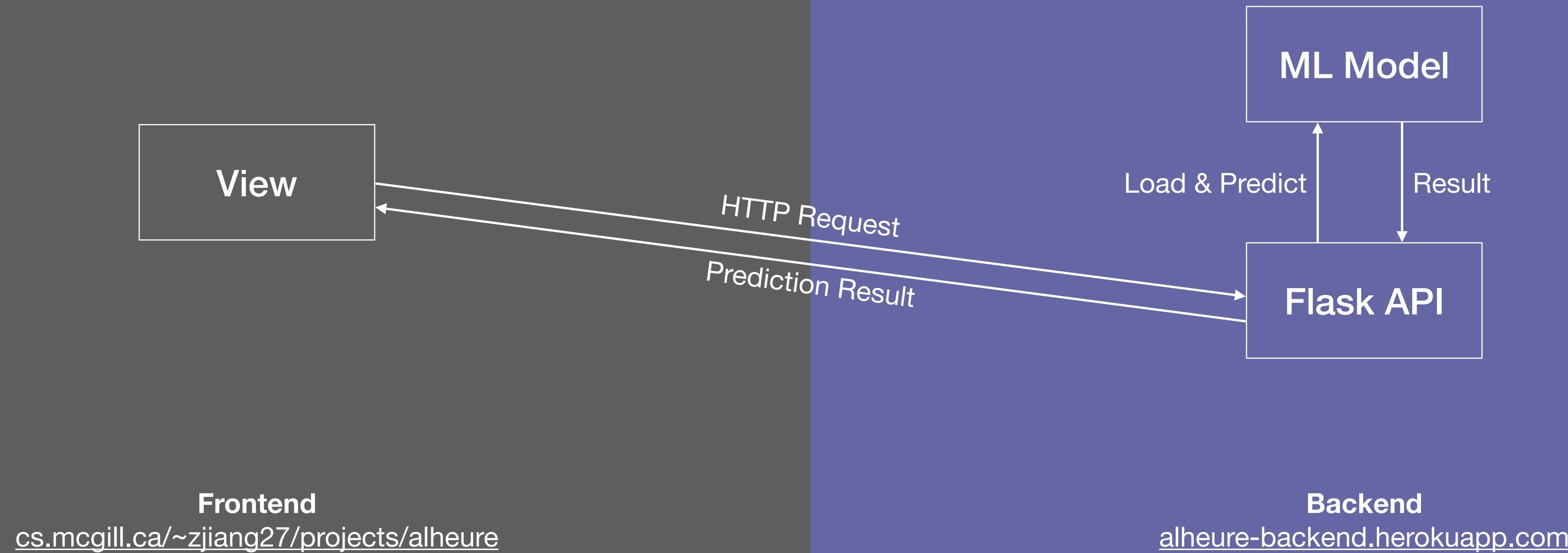
Machine Learning Model

Idea

86%

Overall Accuracy on Unseen Data

Idea



Demo

Potential Future Improvements

Allow more parameters (e.g. precise weather, size of the plane, month, etc.) to improve accuracy

Connect to other apps to prefill data or export result

More precise prediction of, for example, probability of delay and duration of delay



Thank you!

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<https://cs.mcgill.ca/~zjiang27/projects/alheure>

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