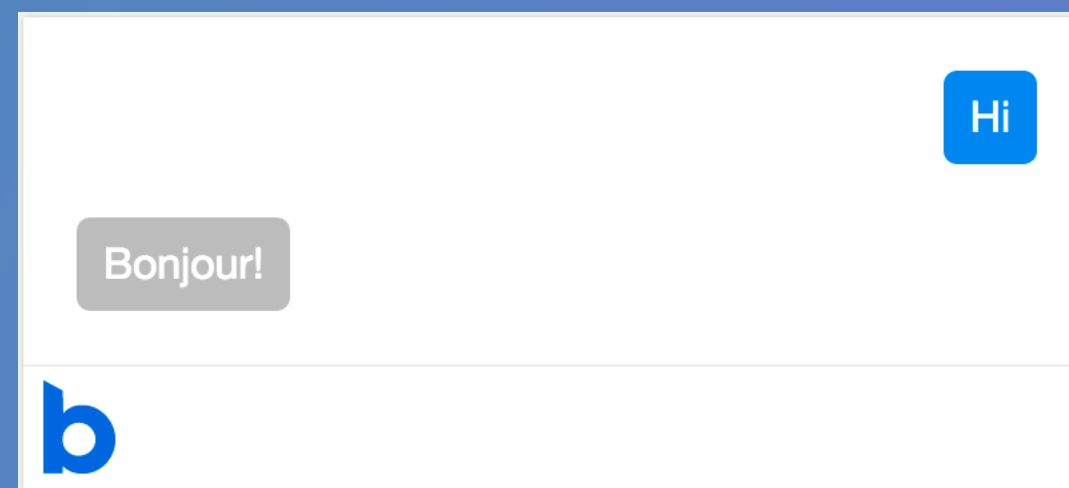


**#DATA\_SCIENCE**

**@GENERAL\_ASSEMBLY**

**Final project by Samuel Delesque**

# Introduction Baily, an intelligent chatbot to help you explore data and content.



*Tip: try yourself at [baily.io](https://baily.io)  
or text (201) 989-1544*

**User input**

what is the temperature?



**Question match**

what is the forecast?



**Response**

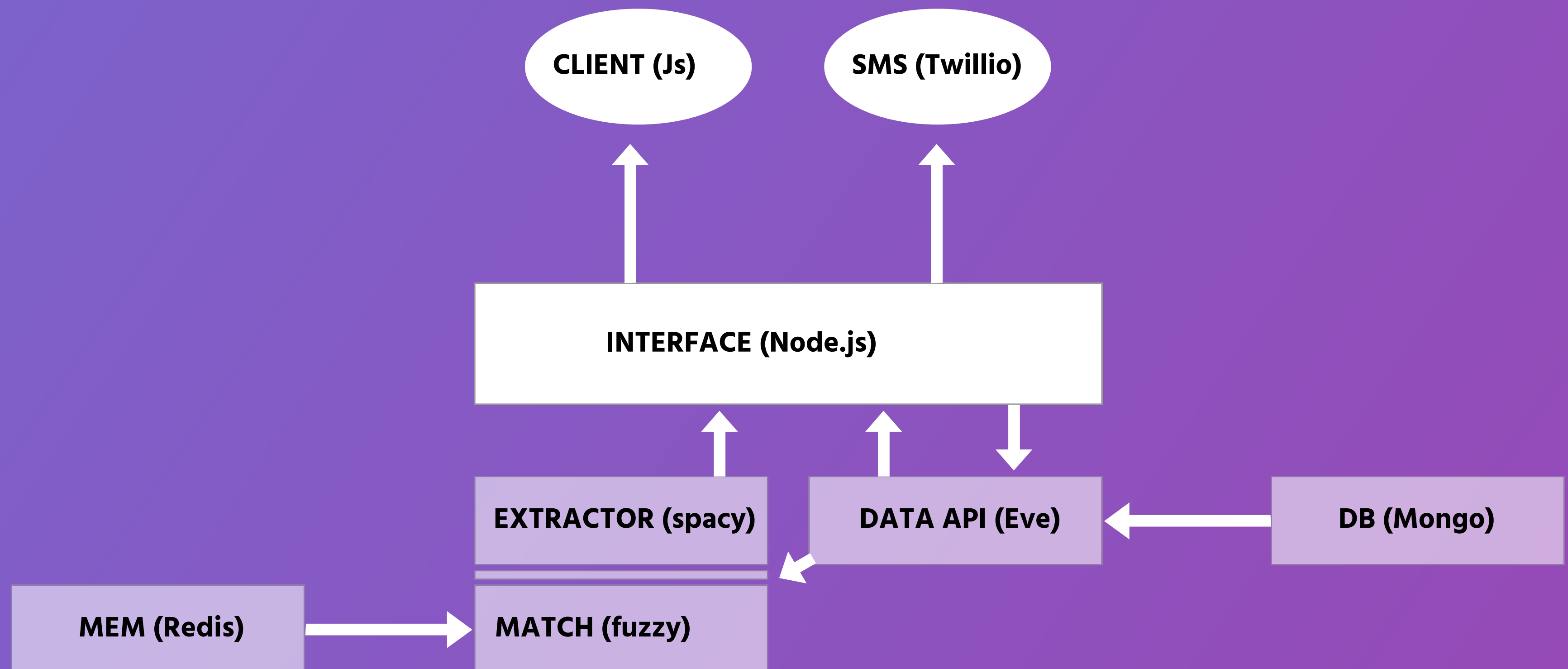
It is 82°F and sunny today.



**Follow up**

Great thanks

# Building it.



Hi

Bonjour!

How many views do I have on my channel?

How much did I earn from claim?

How much have I made so far?

b

How m

How much revenue did I earn between January 2015 and February 2016?

You have earned \$0.00 between January 1st 2015 and February 1st

👎

👍

b

## Decision steps:

1. Extract names, mentions (@), dates, keywords
2. Tokenize text
3. Match similar Questions in DB
4. Calculate keywords intersect
5. Calculate similarity ratio
6. Calculate feedback score
6. Sum and weight scores

## Response Steps:

1. Load matching response
2. Extract variables
3. Load required API's
4. Record conversation history
5. Send response (text, Slack or web client)

Baily Admin

Social posts

Train (0)

account revenue question user

How much do I need to earn to get paid? -- how much do i need to earn to get paid ?



Edit



revenue payment question quantity\_question user

How much did I earn this month -- how much did i earn this month



Create



revenue question quantity\_question user

How much should I earn to be paid ? -- how much should i earn to be paid ?



Create



revenue payment question quantity\_question user

How much did I earn from my videos on my website between last June and this June Baily? -- how much did i earn from my videos on my website between last \_date\_ and this \_date\_ \_name\_ ?



Create



duration\_month revenue question quantity\_question bot user video

How much I've earned? -- how much i 've earned ?



Create



revenue question quantity\_question

How much have I earned between Feb 2010 and June 2015 -- how much have i earned between \_date\_ and \_date\_



Edit





# Becoming social: video-trend model.

Show me a video



10 Things We'd Say To People If We Weren't So Polite

HomeMomentsNotificationsMessages

Search Twitter

Avatar

Tweet

b

TWEETS812

FOLLOWING338

FOLLOWERS79

LIKES38

Settings

Following

TweetsTweets & repliesMedia

b

Baily

@bailymatic

FOLLOWS YOU

Hello! My name is Baily, I like videos, cats and Vodka tonics.

New York, USABaily.io

Joined August 2016

Born on 01 August

Tweet to

Message

2 Followers you know

Avatar

Avatar

Baily

@bailymatic · 1h

b

Top 5 Awesome Tech! Virginia Tech  
#cr7thecanon bit.ly/2citaHF

Video thumbnail

Top 5 Awesome Tech! - vidéo Dailymotion

Regarder la vidéo «Top 5 Awesome Tech!» envoyée par BTWRD sur dailymotion.

dailymotion.com

Retweet

Like

More

Baily Retweeted

Who to follow · Refresh · View all

Avatar

Trammell Hudson™ @qrs

Follow

Avatar

Nathan Fillion @NathanF...  
Follow

Avatar

Charlie Sheen @charlies...  
Follow

Find friends

New York Trends · Change

#Path2Equality



Using Twitter trends + Dailymotion to generate content.

1. Load twitter trends
2. Load related videos
3. Predict if a video will be trending
4. Filter out spam

```
/predict?text=funny cat video
```

```
{
```

```
  "is_spam": 0.0,
```

```
  "video_views_predictor": 8.0
```

```
}
```

## Next steps:

- use admin\_votes and twitter likes to predict trendability
- build spam filter using existing dailymotion database