

MOODMINDER

Make mood great again!

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GOALS

Build a web app that identifies emotion and alleviates mood

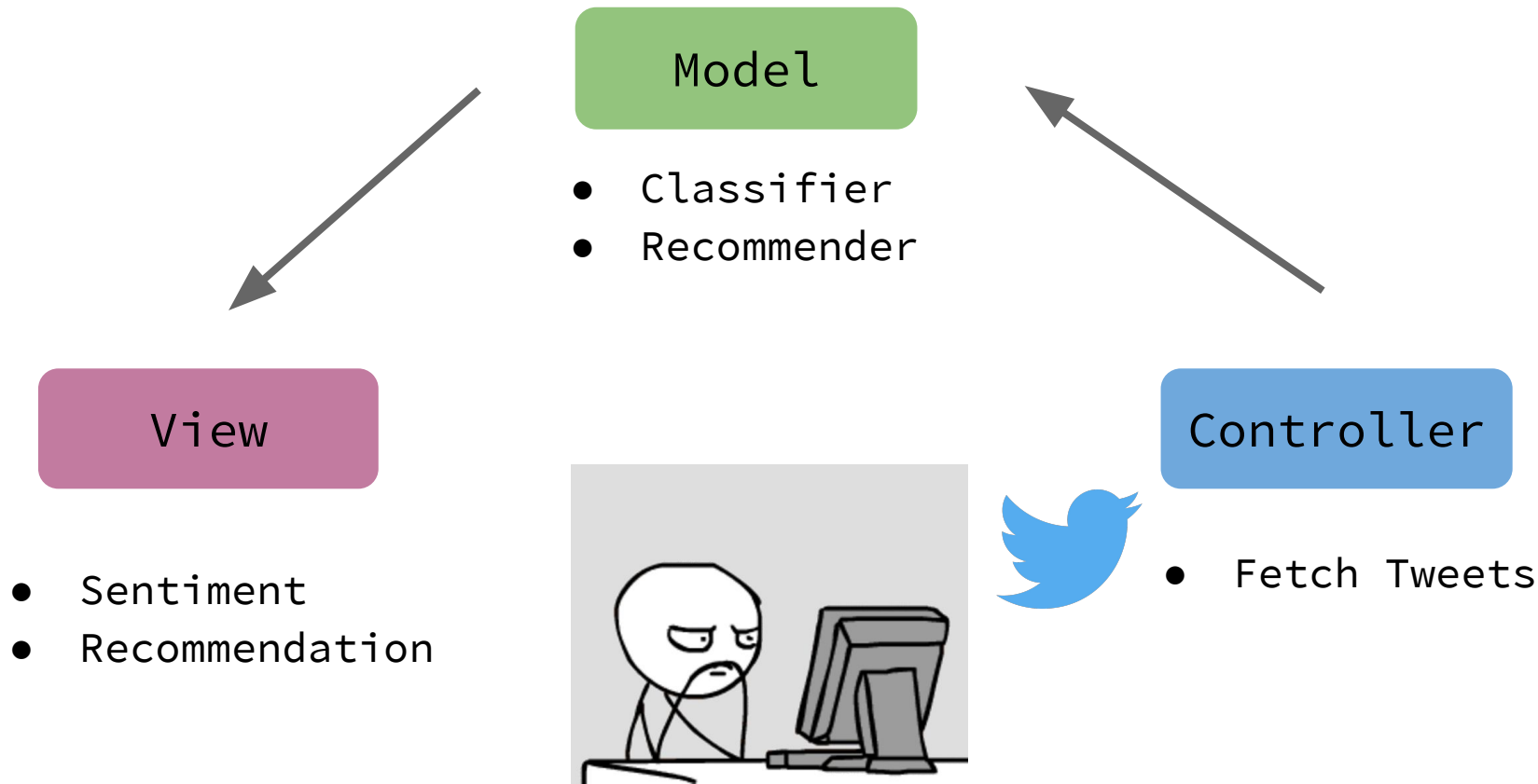


BEFORE

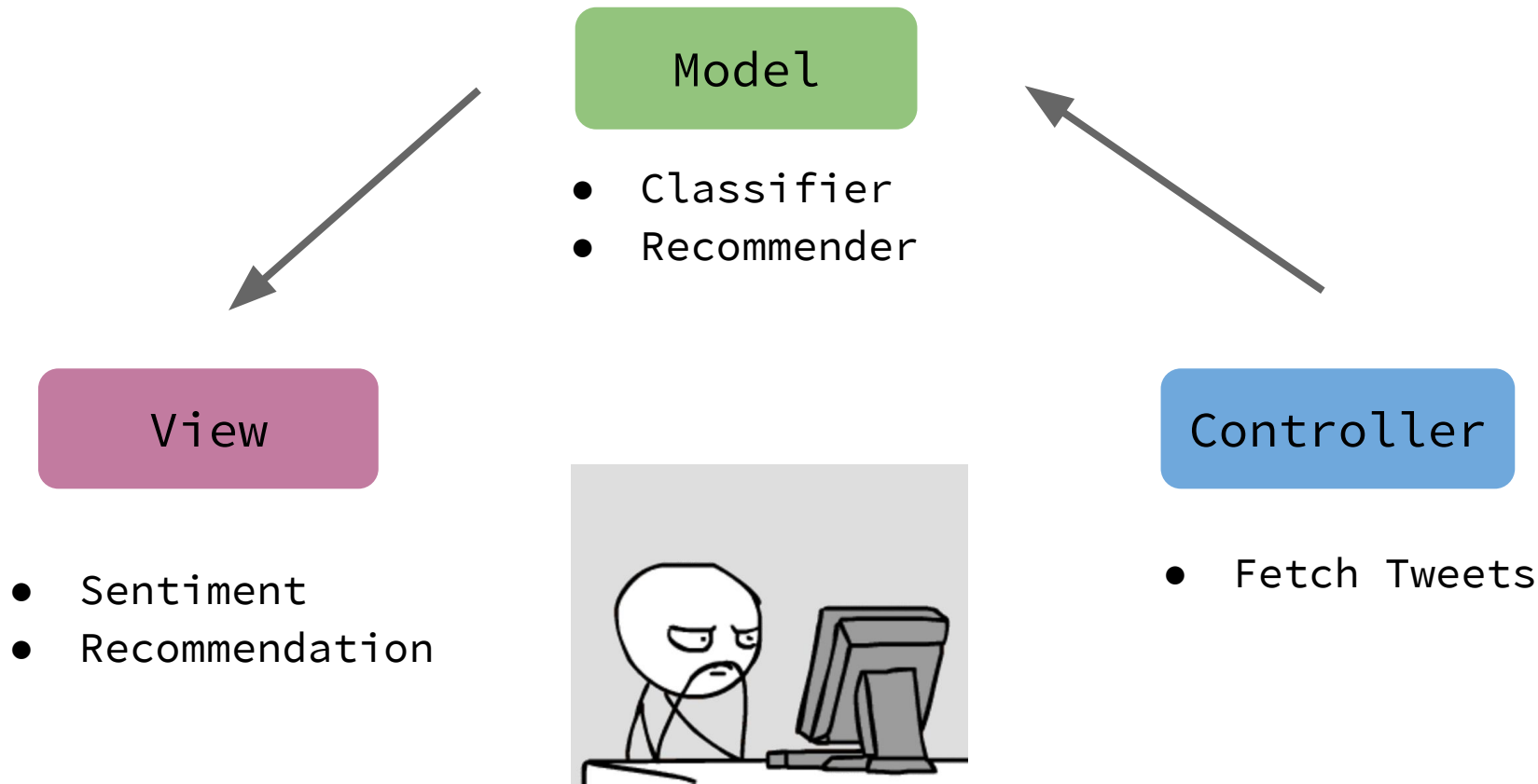


AFTER

ARCHITECTURE



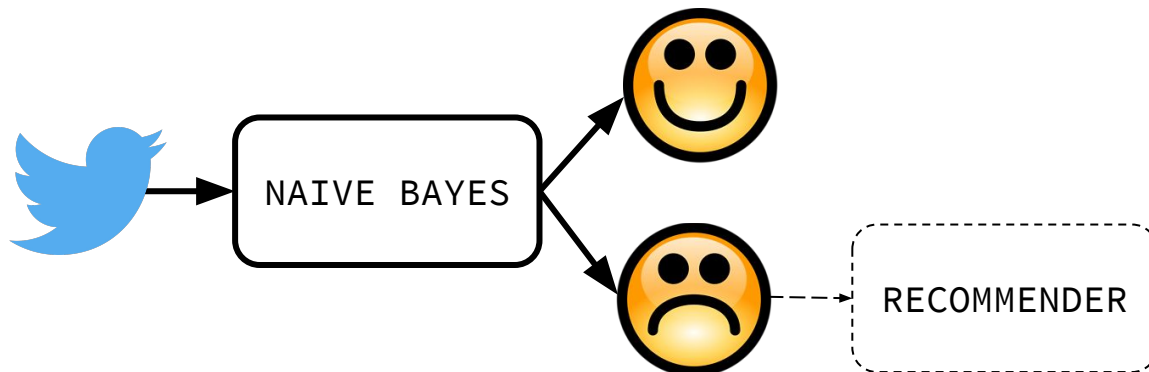
ARCHITECTURE



MODEL

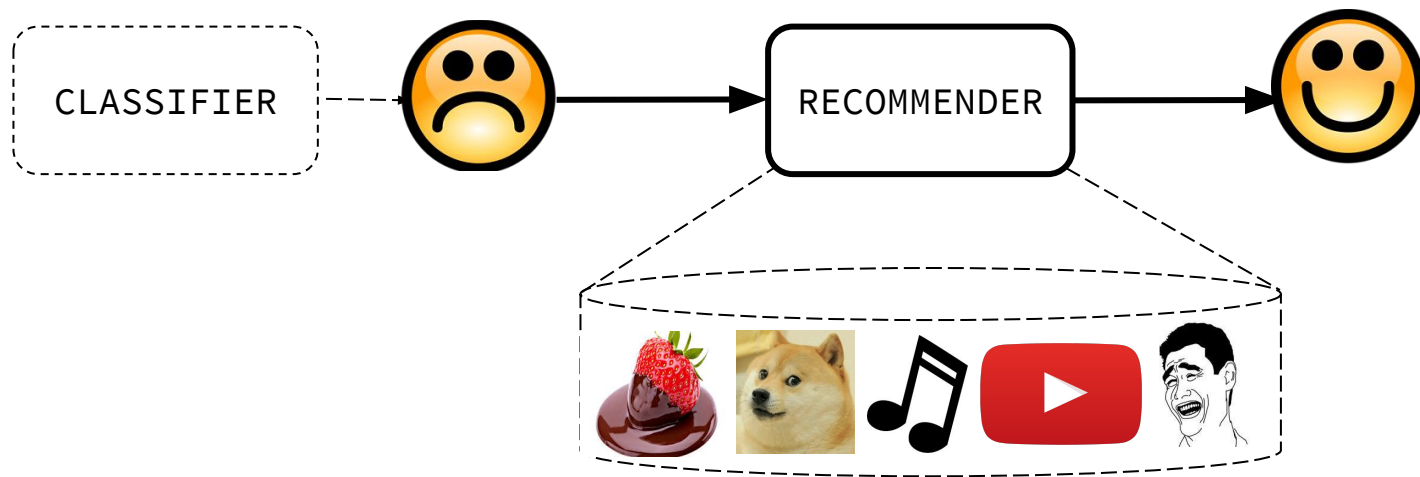
- CLASSIFIER

- Naive Bayes with unigrams + bigrams
- Training set - 5000 Tweets



MODEL

- RECOMMENDER
 - Keyword extraction – POS tagger
 - Category generation



VIEW & CONTROLLER

The Django logo, which consists of the word "django" in a white, lowercase, sans-serif font, centered within a dark green square.

django

- The web framework for perfectionists with deadlines!
- Python-based
- Separation of concerns

DESIGN CHALLENGES

- **Software design:**

- Strategy & Observer Design pattern

- **Modeling design:**

- Feature engineering
- Keyword extraction
- Recommendation

- **Experiment design:**

- Test approach – dynamic testing
- System evaluation

EVALUATION

- **Naive Bayes** with **unigrams**
- Training size: 2000
- Test size: 500
- 5-fold Cross-Validation

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FEATURES LEARNED

sad	birthday
hurts	nice
anymore	video
missed	thank
sucks	amazing
wish	best
forgot	name
sick	post
break	song
left	lmao
rain	glad
feeling	dear
cry	hehe
bad	tweeting
without	thanks
.	.
.	.

LESSONS LEARNED

Design | Development | Test

- MVC makes life easy!
- Using third-party libraries sometimes gets in the way
- Defining a test and evaluation approach

FUTURE WORK

- Feedback-based recommender
- Better classification approaches
- Persistent storage
- UI improvisation

DEMO

THANK YOU!

Questions?