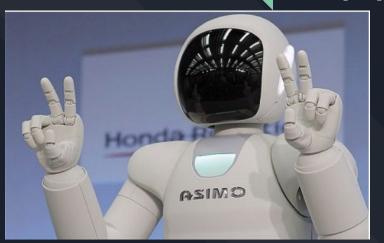
Stacia: CSSE Professor Info Assistant



By Josh Abel, Daniel DeFoe, Markelle Kelly and Samuel Verkruyse

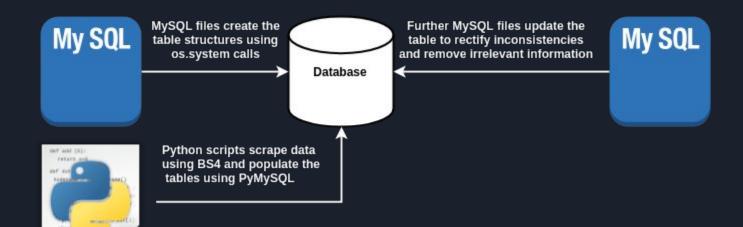
Division of work

- Web scraping / database / sustainer: Josh and Sam
- Alternate interface: Sam
- Bot prediction: Josh
- Topic prediction: Daniel
- Variable parsing: Daniel and Markelle
- Overall infrastructure: Daniel and Markelle
- SQL query generation: Markelle
- English generation: Sam
- Testing: Daniel, Josh, and Markelle

Sources

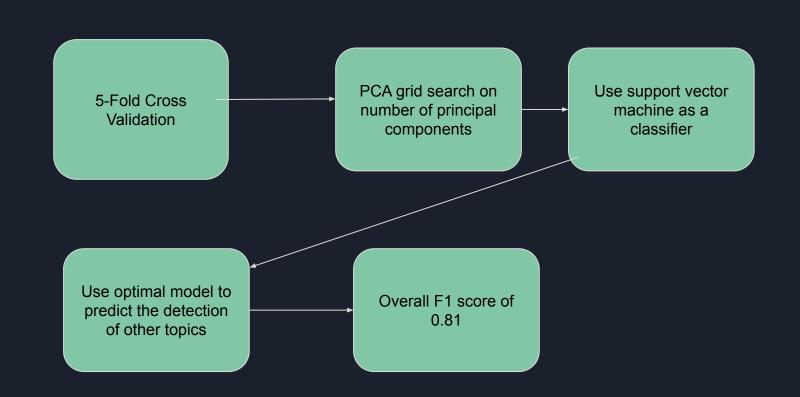
- Faculty directory
- Faculty paper submissions
- Historical staff & their degrees
- Cal Poly Schedules
- Polyratings
- CS Senior Projects
- CPE Senior Projects

Sustainer

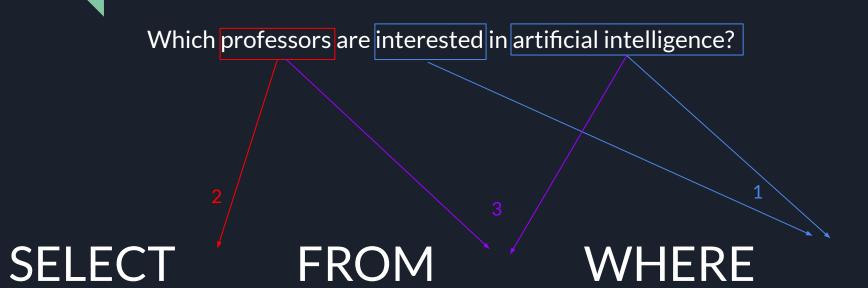


Machine Learning Path Input Contact Clubs History Rating Not Ours Research Courses A next step for this would be to classify which bot the question should go to (or if relevant) first and then fine tune

Detecting Other Topics



SQL Query Generation



English Generation

• Find what table the SQL Query came from

• Combine all results with the same first and last name

Add response according to grammar template

```
Note general

instructors

Firstman, Liststan-position chair, room phose, urt, email

Firstman, Liststan-position chair, room phose, urt, email

Firstman, Liststan-position chair, room phose, urt, email

Firstman, Liststan-position, chair, room phose, urt, email

Firstman, Liststan-position, chair, page, doys, StartIze, EndTime, Locations, Quarter, rear

Firstman, Liststan-position, urt, page the property of the courses that match that query are

([Course])[Scations]). (taught by [Fi]) (a [Types])(on [Days])(at [StartIze](until [EndTime]))(at [Location])(during [Quarter][Year])

courses

Firstman, Liststane, Courses, accepagesed, coursehame

([Course]) [Tri[[1]] (for [Courses], [Coursehame))

Engres

Engres

Engres

The dopers that match that query are

([Geyer-Goggeed) (for [Fi][1]) (form [Louversity)) (in [Year])

(clubs

Firstman, Liststane, clubsare

The clubs that match that query are

([Fi][1] is an exister for:[(Clubsare))

Firstman, Liststane, [Journalmen pagementThe publications that match that query are

([Fi][1] is an existene, [Journalmen])

Firstman, Liststane, [Journalmen] and [Fi][1] (form [Inverting and [Fi][1]) (form [Inverting and [Fi][1])
```

Alternate Interface



Next steps

- Fuzzy matching
- Sessions
- More natural Markov chains for English
- Fine tuning machine learning for other groups