Natural Language Processing



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MASTERS STUDY PROGRAM IN INFORMATICS ENGINEERING

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Teknologi yang digunakan adalah:

- scikit-learn (untuk TF-IDF)
- Flask sebagai Backend
- HTML + CSS sederhana untuk chat UI

No	Nama file	Fungsi
1.	Арр.ру	Sebagai Backend
		menggunakan framework flask
2.	Intents.json	Intent dan respon
3.	Chatbot_logic.py	NLP Logic
4.	Templates/index.html	Tampilan chatbot

Contoh intents.json

```
{
  "intents": [
    {
      "tag": "greeting",
      "patterns": ["hi", "hello", "hey", "selamat pagi", "halo"],
      "responses": ["Halo! Ada yang bisa saya bantu?", "Hai, selamat datang!"]
    },
    ....
  ]
}
```

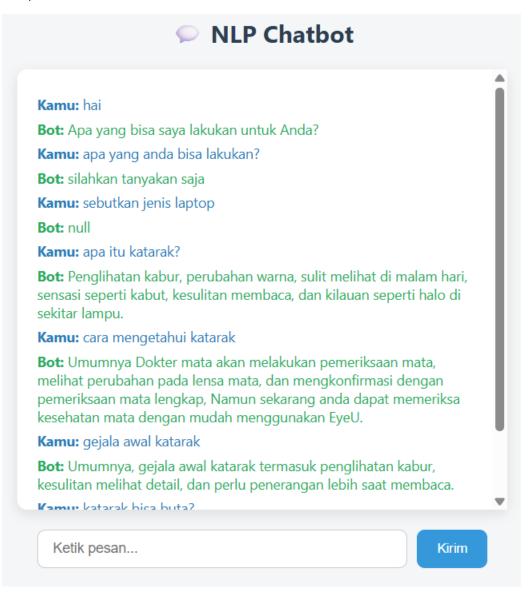
Contoh tangkapan layar file intents.json

```
dataset > {} intents_health_eye.json > [ ] intents > {} 3 > [ ] patterns
            "intents": [
                 },
                     "tag": "gejala katarak",
                     "patterns": [
                         "apa itu katarak?",
                         "Gejala katarak",
                         "apa saja gejala katarak",
                         "apa gejala katarak",
                         "gejala katarak?"
                     "responses":
                         "Penglihatan kabur, perubahan warna, s
                     ],
                     "context":
                     "tag": "diagnosis katarak",
                     "patterns": [
                         "Bagaimana katarak terdiagnosis?",
                         "cara mendiagonosis katarak",
                         "cara mengetahui katarak",
  92
                         "gimana mengetahui katarak?"
  95
                     "responses": [
                         "Umumnya Dokter mata akan melakukan pe
                     ],
                     "context":
```

Jalankan app.py dengan perintah "python app.py" kemudian buka http://127.0.0.1:5000

```
$ python app.py
 * Serving Flask app 'app'
 * Debug mode: on
WARNING: This is a development server. Do not use it in a produ
 * Running on http://127.0.0.1:5000
Press CTRL+C to quit
 * Restarting with stat
 * Debugger is active!
 * Debugger PIN: 448-289-594
127.0.0.1 - - [05/May/2025 13:34:17] "GET / HTTP/1.1" 200 -
```

Tampilan website chatbot



Selesai.