

# Machine Learning: Special Topics

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Project 01

Ivanovitch Silva  
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# Knowing

- knowing
- listening
- reading
- writing/note-taking
- studying

<content and learning objects>

# Discovering

- researching
- observing
- investigating
- testing

<active learning and curation>

# Sharing

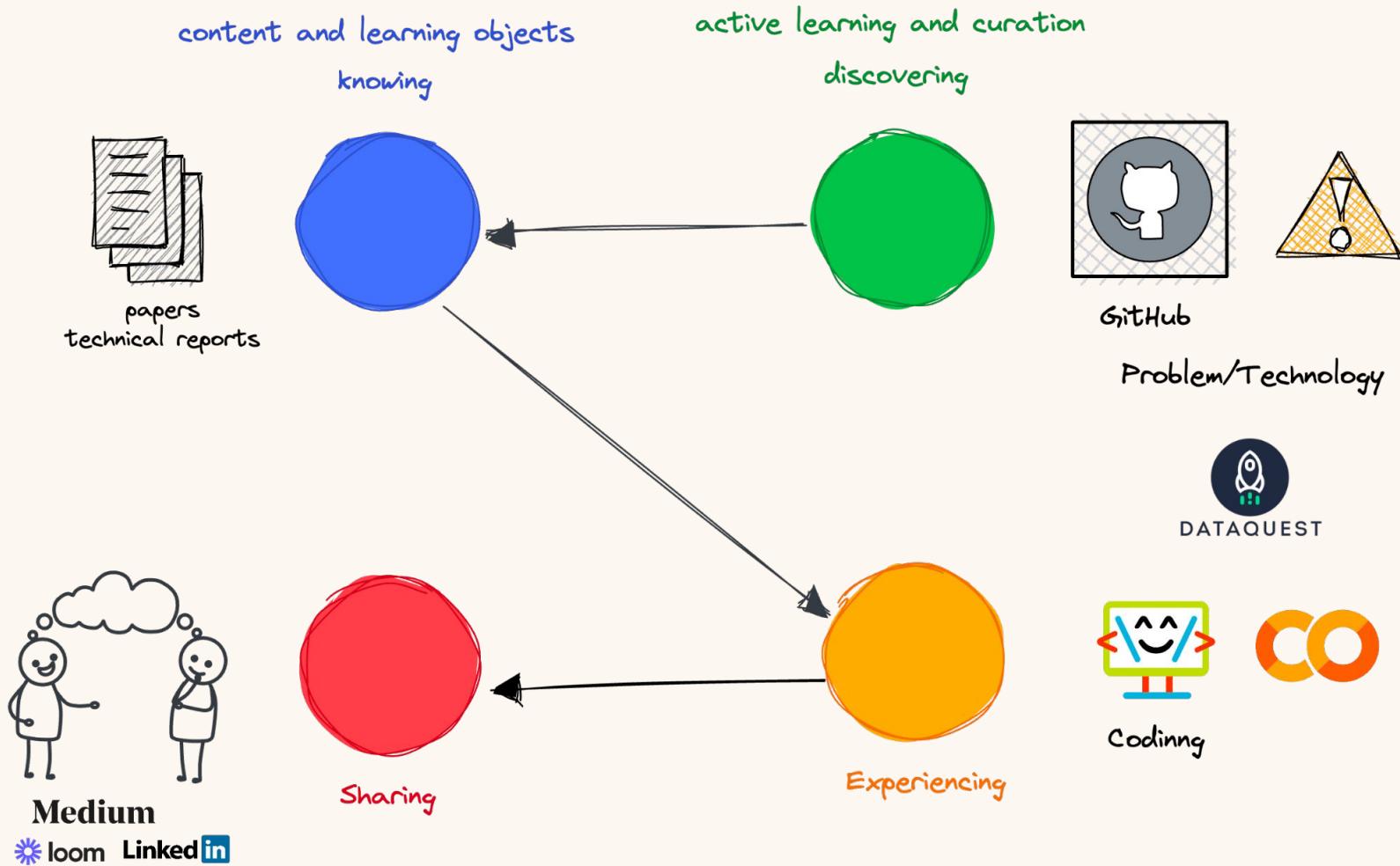
- dialoguing
- debating
- discussing
- explaining
- teaching
- exchanging

<Spaces, platforms, networks, and communities>

# Experiencing

- practicing
- giving meaning
- experiencing
- creating
- fealing
- connecting the dots

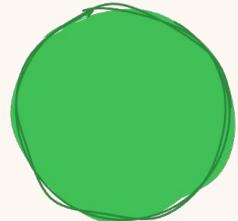




# Problem Technology Challenge #01

active learning and curation

discovering



<https://s.mj.run/-voQmXKufW> interacting with three students -- seed 4259884002 -- ar 1:2 --v 5  
--s 750 --q 2

#midjourney



Original

Prompt: green dragon university mascot, long tail, big eyes, expressive lighting, smooth shading, golden ratio position, friendly art, cinema 4D, Tarsis do Amaral --seed 4259884002 --v 5 --s 750 --q 2

Gerada pela IA



#reproduza.ai



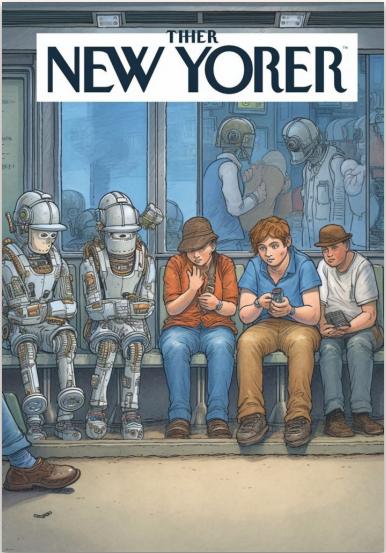
[https://s.mj.run/q7yRW\\_eYqLk](https://s.mj.run/q7yRW_eYqLk) creative and cozy research office is an open space dotted on the walls with a blackboard, chaise lounge sofa, in the style of multiple screens, coworking, printed matter, associated press photo, collaborative, computer-aided manufacturing, wooden, industrial interior design ☕ --ar 4:5 --seed 2784348456 --v 5 --s 750 --q 2



black blazer with shorts and accessories in grey and yellow,  
in the style of daz3d, light orange and white, collage-like, traincore, ryky,  
flat, limited shading, dark yellow and light white --v 5 --s 750 --q 2



the outfit is a leather coat, hat, skirt and bag, in the style of nostalgic  
illustration, neutral color palettes, pictorialist style, retro charm,  
mashup of styles, vintage academia, dark white and dark beige,  
a woman wearing this outfit --ar 4:5 --v 5 --s 750 --q 2



*Original*



by guggenheim.



by oscar niemeyer.



*Original*



by guggenheim.



by oscar niemeyer.



# AUTOMATIC1111 / stable-diffusion-webui

Public

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AUTOMATIC1111 attempted fix for infinite loading for settings that so... ... 31 22bcc7b on Mar 29 4,010 commits

<a href="#">.github</a>	specify the tests dir in automated tests	last month
<a href="#">configs</a>	disable EMA weights for instructpix2pix model, whcih should get me...	3 months ago
<a href="#">embeddings</a>	add embeddings dir	7 months ago
<a href="#">extensions-builtin</a>	Merge pull request #8525 from bluelovers/pr/sort-001	last month
<a href="#">extensions</a>	delete the submodule dir (why do you keep doing this)	6 months ago
<a href="#">html</a>	readds metadata_button	last month
<a href="#">javascript</a>	Revert "Merge pull request #7931 from space-nuko/img2img-enhanc..."	last month
<a href="#">localizations</a>	Remove old localizations from the main repo.	5 months ago
<a href="#">models</a>	Add support for the Variations models (unclip-h and unclip-l)	last month
<a href="#">modules</a>	attempted fix for infinite loading for settings that some people expe...	last month
<a href="#">scripts</a>	Revert "Merge pull request #7931 from space-nuko/img2img-enhanc..."	last month

## About

Stable Diffusion web UI

web ai deep-learning torch  
pytorch unstable image-generation  
gradio diffusion upscaling  
text2image image2image img2img  
ai-art txt2img stable-diffusion

[Readme](#)

[AGPL-3.0 license](#)

[69.7k stars](#)

[639 watching](#)

[13.1k forks](#)

[Report repository](#)

## Releases

[1 tags](#)

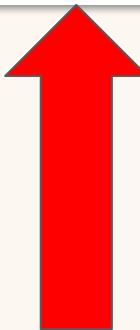
# Installation and Running

Make sure the required dependencies are met and follow the instructions available for both [NVidia](#) (recommended) and [AMD](#) GPUs.

Alternatively, use online services (like Google Colab):

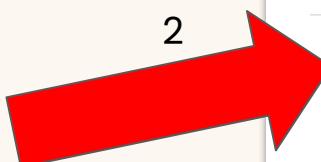
- [List of Online Services](#)

1



colab

2



## Online Services

camenduru edited this page on Mar 9 · 11 revisions

### Google Colab

- [maintained by TheLastBen](#)
- [maintained by camenduru](#)
- [maintained by ddPn08](#)
- [maintained by Akaibu](#)
- [Colab, original by me, outdated.](#)

 javascript	Revert "Merge pull request #7931 from space-nuko/img2img-enhanc..."	last month
 localizations	Remove old localizations from the main repo.	5 months ago
 models	Add support for the Variations models (unclip-h and unclip-l)	last month
 modules	attempted fix for infinite loading for settings that some people expe...	last month
 scripts	Revert "Merge pull request #7931 from space-nuko/img2img-enhanc..."	last month
 test	test/basic_features/{extras,img2img}_test.py: use absolute path	last month
 textual_inversion_templates	hypernetwork training mk1	6 months ago



2

Cont.

[Models](#)[Datasets](#)[Spaces](#)[Docs](#)[Solutions](#)[Pricing](#)[+ New](#)

## Ivanovitchm

- [Profile](#)
- [Inbox \(0\)](#)
- [Settings](#)
- [Pro](#)

## Organizations

- [Conect2ai](#)
- [Create New](#)

## Resources

- [Hub guide](#)
- [Transformers doc](#)
- [Forum](#)
- [Tasks](#)
- [Learn](#)

[Light theme](#)

## Ivanovitch Medeiros Dantas da Silva's Activity

[All](#)[Models](#) [Datasets](#) [Spaces](#) [Community](#) [Likes](#)

No activity. You can fill your activity feed by:

- [Creating new Models, Datasets or Spaces.](#)
- [Liking Models, Datasets or Spaces.](#)
- [Participating to discussions in the Community tab.](#)

## Trending last 7 days

[All](#)[Models](#) [Datasets](#) [Spaces](#)

[OpenAssistant/oasst-sft-6-llama-30b-xor](#)

Updated about 21 hours ago • ❤ 450

[togethercomputer/RedPajama-Data-1T](#)

Preview • Updated 9 days ago • ❤ 525

Running on A10G



❤ 501

[Whisper JAX](#)

❤ 578

[llyasviel/ControlNet-v1-1](#)

Updated 3 days ago • ❤ 598

[OpenAssistant/oasst1](#)

Preview • Updated 1 day ago • ↓ 329 • ❤ 604

[runwayml/stable-diffusion-v1-5](#)

Updated Jan 27 • ↓ 1.81M • ❤ 7.32k

[databricks/dolly-v2-12b](#)

Updated 3 days ago • ↓ 22.4k • ❤ 1.5k





runwayml/stable-diffusion-v1-5

like

7.32k

Text-to-Image

Diffusers

stable-diffusion

stable-diffusion-diffusers

arxiv:2207.12598

arxiv:2112.10752

arxiv:2103.00020

arxiv:2205.11487

arxiv:1910.09700

License: creativeml-openrail-m

Model card

Files and versions

Community 113

⋮

Deploy

Use in Diffusers

## Stable Diffusion v1-5 Model Card

Stable Diffusion is a latent text-to-image diffusion model capable of generating photo-realistic images given any text input. For more information about how Stable Diffusion functions, please have a look at [🤗's Stable Diffusion blog](#).

The [Stable-Diffusion-v1-5](#) checkpoint was initialized with the weights of the [Stable-Diffusion-v1-2](#) checkpoint and subsequently fine-tuned on 595k steps at resolution 512x512 on "laion-aesthetics v2 5+" and 10% dropping of the text-conditioning to improve [classifier-free guidance sampling](#).

You can use this both with the [Diffusers library](#) and the [RunwayML GitHub repository](#).

## Diffusers

Edit model card

Downloads last month  
1,814,898



### Hosted inference API

Text-to-Image

Your sentence here...

Compute

This model can be loaded on the Inference API on-demand.

JSON Output

Maximize

### Spaces using runwayml/stable-diffusion-v1-5 1092

microsoft/HuggingGPT

camenduru/webui

hyts/ControlNet

Inyan/stablediffusion-infinity

microsoft/visual\_chatgpt

runwayml/stable-diffusion-v1-5

fffiloni/ControlNet-Video

darkstorm2150/Stable-Diffusion-Protogen-x3.4-webui

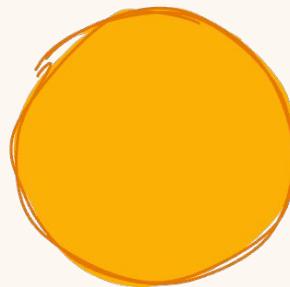
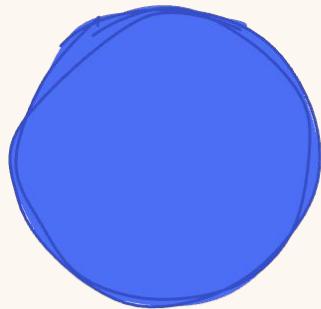
 patrickvonplaten	HF STAFF	 Narsil	HF STAFF	Adding `safetensors` variant of this model (#61)	39593d5	3 months ago
 feature_extractor				add diffusers weights		6 months ago
 safety_checker				Adding `safetensors` variant of this model (#61)		3 months ago
 scheduler				Update scheduler/scheduler_config.json		6 months ago
 text_encoder				Adding `safetensors` variant		
 tokenizer				add diffusers weights		
 unet				Adding `safetensors` variant		
 vae				Adding `safetensors` variant		
 .gitattributes	⚙️			1.55 kB ↓	Upload v1-5-pruned.ckpt	
 README.md	⚙️			10.5 kB ↓	Update README.md	
 model_index.json	⚙️			543 Bytes ↓	add diffusers weights	
 v1-5-pruned-emaonly.ckpt				4.27 GB  ↓	Upload v1-5-pruned-emaonly.ckpt	6 months ago
 v1-5-pruned-emaonly.safetensors	⚙️			4.27 GB  ↓	Adding `safetensors` variant of this model (#61)	3 months ago
 v1-5-pruned.ckpt				7.7 GB  ↓	Upload v1-5-pruned.ckpt	6 months ago
 v1-5-pruned.safetensors	⚙️			7.7 GB  ↓	Adding `safetensors` variant of this model (#61)	3 months ago
 v1-inference.yaml	⚙️			1.87 kB ↓	add diffusers weights	6 months ago



Test this on which problem?  
How to test?  
Explore your creativity

content and learning objects

knowing



Experiencing

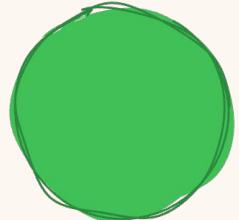


Codinng



# Problem Technology Challenge #02

active learning and curation  
discovering



# facebookresearch / segment-anything

Public

Watch 233

Fork 3.2k

Star 30.5k



Code



Issues 156



Pull requests 21



Actions



Projects



Security



Insights

main

2 branches

0 tags

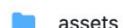
Go to file

Add file

&lt;&gt; Code

**ericmintun** Fix incorrect shape in ResizeLongestSide.apply\_image\_torch.

567662b 2 weeks ago 44 commits



assets Add mini web demo

2 weeks ago



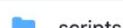
demo Update demo copyright headers.

2 weeks ago



notebooks Fix typo in notebook 'using\_colab'-'&gt;'using\_colab' in other two note...

3 weeks ago



scripts Fix lint.

2 weeks ago



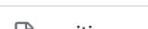
segmentAnything Fix incorrect shape in ResizeLongestSide.apply\_image\_torch.

2 weeks ago



.flake8 Initial commit

3 weeks ago



.gitignore Add mini web demo

2 weeks ago



CODE\_OF\_CONDUCT.md Initial commit

3 weeks ago



CONTRIBUTING.md Initial commit

3 weeks ago



LICENSE Initial commit

3 weeks ago

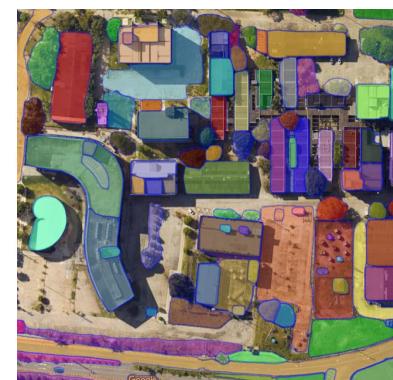


README.md Added demo instructions to main readme

2 weeks ago

## About

The repository provides code for running inference with the SegmentAnything Model (SAM), links for downloading the trained model checkpoints, and example notebooks that show how to use the model.

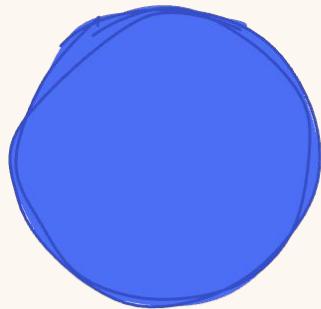


## Releases

Test this on which problem?  
How to test?  
Explore your creativity

content and learning objects

knowing



Experiencing

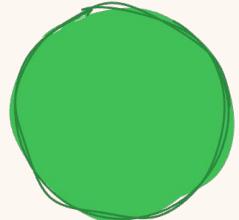


Codinng



# Problem Technology Challenge #03

active learning and curation  
discovering



# Significant-Gravitas / Auto-GPT

Public

[Sponsor](#)[Watch 1.3k](#)[Fork 21.9k](#)[Star 117k](#)[Code](#)[Issues 343](#)[Pull requests 241](#)[Discussions](#)[Actions](#)[Projects 2](#)[Wiki](#)[Security](#)[Insights](#)[master](#)[11 branches](#)[7 tags](#)[Go to file](#)[Add file](#)[Code](#)**gantit and Pwuts** Fix URL to docs in API throttling message ([#3201](#)) ... ✓ 1772a01 13 hours ago ⏲ 1,824 commits[.devcontainer](#)Improve docker setup & config ([#1843](#))

4 days ago

[.github](#)Run the integration tests in the CI pipeline BUT without API keys ([#3...](#))

yesterday

[autopt](#)Fix URL to docs in API throttling message ([#3201](#))

13 hours ago

[benchmark](#)

misc: fix typo in benchmark

last week

[docs](#)Update broken link ([#3416](#))

17 hours ago

[plugins](#)

Plugins initial

2 weeks ago

[scripts](#)Re-add install-plugin-deps to CLI ([#3170](#))

3 days ago

[tests](#)Make y/n configurable ([#3178](#))

16 hours ago

[.coveragerc](#)

fix:?

last week

[.dockerignore](#)Improve docker setup & config ([#1843](#))

4 days ago

[.env.template](#)Make y/n configurable ([#3178](#))

16 hours ago

## About

An experimental open-source attempt to make GPT-4 fully autonomous.

🔗 [significant-gravitas.github.io/Auto-GPT/](https://significant-gravitas.github.io/Auto-GPT/)

[python](#) [ai](#) [openai](#) [gpt-4](#)

📖 Readme

⚖️ MIT license

❤️ Code of conduct

⭐ 117k stars

👁️ 1.3k watching

🍴 21.9k forks

Report repository

## Releases 7

Auto-GPT v0.2.2 Latest  
last week

hwchase17 / langchain Public

Code Issues 859 Pull requests 186 Discussions Actions Projects Security Insights

master 130 branches 89 tags Go to file Add file <> Code

 hwchase17 bump version to 152 (#3695)	✓ 32793f9 4 hours ago	⌚ 1,598 commits
.github	Use a consistent poetry version everywhere (#3250)	3 days ago
docs	Multiagent authoritarian (#3686)	4 hours ago
langchain	Add validation on agent instantiation for multi-input tools (#3681)	12 hours ago
tests	Add validation on agent instantiation for multi-input tools (#3681)	12 hours ago
.dockerignore	fix: tests with Dockerfile (#2382)	3 weeks ago
.flake8	change run to use args and kwargs (#367)	4 months ago
.gitignore	Allow clearing cache and fix gptcache (#3493)	yesterday
CITATION.cff	bump version to 0069 (#710)	3 months ago
Dockerfile	feat: add pytest-vcr for recording HTTP interactions in integration t...	3 weeks ago
LICENSE	add license (#50)	5 months ago
Makefile	Add lint_diff command (#2449)	3 weeks ago

**About**

⚡ Building applications with LLMs through composability ⚡

📖 Readme  
⚠ MIT license  
🔗 Cite this repository  
⭐ 32.5k stars  
👁 352 watching  
🍴 3.4k forks  
Report repository

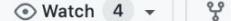
---

**Releases** 89

v0.0.152 Latest  
4 hours ago

+ 88 releases

 [mallahyari / drqa](#) Public

 Watch 4  Fork 9  Starred 58

[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Security](#) [Insights](#)

 main  1 branch  0 tags [Go to file](#) [Add file](#) [Code](#)

 [mallahyari](#) Merge pull request #1 from TommyNeedl/main ... 40cbd27 last month  15 commits

 backend/app	bigfixes when running locally	last month
 frontend	backend added to the repo	last month
 .gitignore	bigfixes when running locally	last month
 QA-Langchain-LLM.svg	Readme updated.	last month
 README.md	bigfixes when running locally	last month
 qa_demo.mp4	Readme updated with demo.	last month

 README.md

## Leveraging LangChain and Large Language Models for Accurate PDF-Based Question Answering

**About**

How to create Question-Answering system combining Langchain and OpenAI

  
openai question-answering  
semantic-search  
question-answer-generation  
vector-database openai-api llms  
langchain qdrant-vector-database

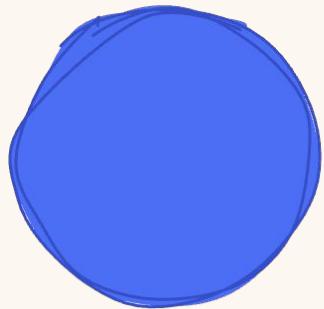
 Readme  
 58 stars  
 4 watching  
 9 forks  
Report repository

**Releases**

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Experiencing

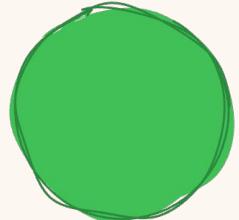


Codinng



# Problem Technology Challenge #04

active learning and curation  
discovering



SHORT COURSE

# ChatGPT Prompt Engineering for Developers



Learn for free →

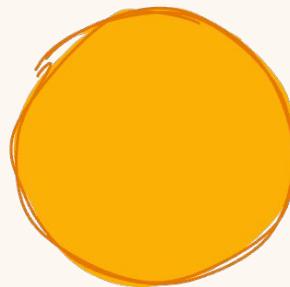
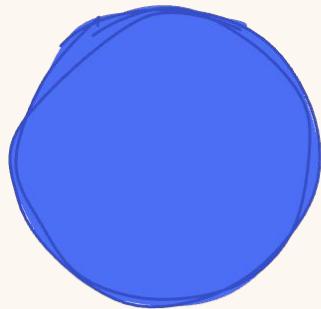
- ChatGPT Prompt  
Engineering for  
Developers
- Introduction
  - ▷ Guidelines
  - ▷ Iterative
  - ▷ Summarizing
  - ▷ Inferring
  - ▷ Transforming
  - ▷ Expanding
  - ▷ Chatbot
  - ▷ Conclusion
  - Course Feedback
  - Community



Test this on which problem?  
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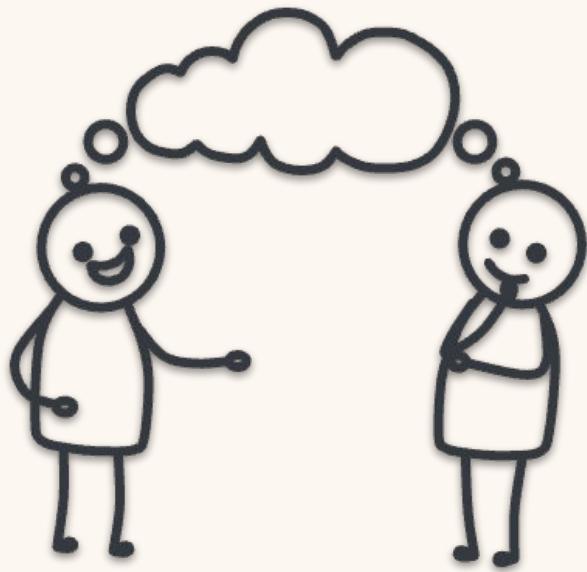


Experiencing



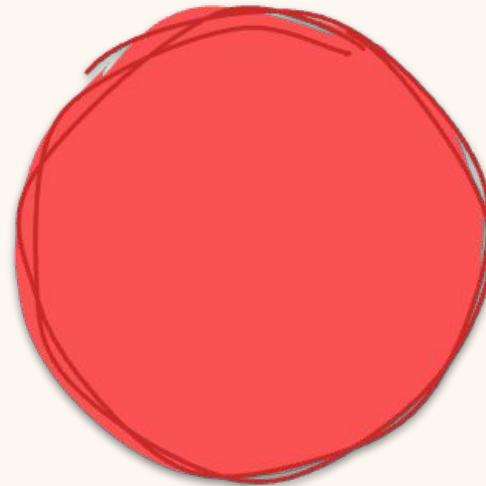
Codinng





**Medium**

 loom  LinkedIn



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[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Security](#) [Insights](#)[main](#) ▼ [1 branch](#) [0 tags](#)[Go to file](#)[Add file](#) ▼[Code](#) ▼ alvarofpp chore: updates datasets

251ee94 on Aug 7, 2021

26 commits

<a href="#">data</a>	chore: updates datasets	2 years ago
<a href="#">.gitignore</a>	chore: adds .gitignore	2 years ago
<a href="#">LICENSE.md</a>	chore: adds LICENSE.md	2 years ago
<a href="#">README.md</a>	chore: updates README.md	2 years ago
<a href="#">extract.py</a>	refactor: extract script	2 years ago
<a href="#">requirements.txt</a>	chore: adds networkx package	2 years ago
<a href="#">transform_to_airports_csv.py</a>	fix: columns and encode	2 years ago
<a href="#">transform_to_anac_csv.py</a>	fix: files path	2 years ago
<a href="#">transform_to_graphml.py</a>	fix: removes self-loop	2 years ago

[README.md](#)

## About

Flights in Brazil registered by ANAC  
(Agência Nacional de Aviação Civil -  
National Civil Aviation Agency)

[csv](#) [brazil](#) [python3](#) [dataset](#)  
[flights](#) [air-traffic](#) [graphml](#)  
[air-traffic-data](#)

[Readme](#)[MIT license](#)[5 stars](#)[2 watching](#)[0 forks](#)[Report repository](#)

## Releases

No releases published

[Code](#) [Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Security](#) [Insights](#)[main](#) [1 branch](#) [0 tags](#)[Go to file](#)[Add file](#)[Code](#)

thaisaraujo2000 project - tinyml facemask		133455b on Mar 19	11 commits
	img	project - tinyml facemask	2 months ago
	library_zip	project - tinyml facemask	2 months ago
	notebooks	project - tinyml facemask	2 months ago
	README.md	project - tinyml facemask	last month
	nano_ble33_sense_camera.ino	project - tinyml facemask	2 months ago

[README.md](#)

## TinyML Face Mask Detection

### Introduction

Many people have been using machine learning to create innovative solutions in all areas of science. Some models

### About

This repository contains the files used to create a soft-sensor that seeks to identify whether or not a person is wearing a mask from an image captured by the Arduino BLE Sense 33 camera.

[machine-learning](#) [edge-computing](#)  
[tinyml](#) [face-mask-detection](#)

[Readme](#)[0 stars](#)[1 watching](#)[0 forks](#)[Report repository](#)

### Releases

No releases published

[main](#) branch  
[1 branch](#) [0 tags](#)[Go to file](#)[Add file](#) ▾[Code](#) ▾ **ivanovitchm** update dags output✓ ad549de on Mar 28, 2022 [104 commits](#)

 .dvc	data stage finalized	last year
 .github/workflows	add test under the API	last year
 api	add query live api	last year
 images	update dags output	last year
 pipeline	update api testing	last year
 .dvcignore	stop tracking pipeline/01_data/census.csv	last year
 .gitignore	Starting the implementation of the pipeline <EDA>	last year
 Aptfile	update readme	last year
 LICENSE	Initial commit	last year
 Procfile	update readme	last year
 README.md	update dags output	last year

## About

A MLOps workflow to classify incomes based on publicly available Census Bureau data.

[data-science](#) [machine-learning](#)  
[census-bureau](#) [mlops](#)[Readme](#)[GPL-3.0 license](#)[34 stars](#)[3 watching](#)[4 forks](#)

## Releases

No releases published

[Create a new release](#)

# 2023

## MAY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

Pitch 5min  
Q&A  
In person!!!!

Technical Report (medium or similar) +  
Linkedin Post

Github repository  
Pro Readme  
Loom/Youtube video (up to 10min)