

2. Model

```
✓ build model

1 ▶ Run python ./model.py -u ""
11           min_elevation  max_elevation  ...  avg_speed  difficulty_num
12 min_elevation      1.000000      0.807699  ...   0.101569      0.510755
13 max_elevation      0.807699      1.000000  ...  -0.015848      0.730115
14 uphill            0.153981      0.592041  ...  -0.377601      0.659155
15 downhill          0.084851      0.629445  ...  -0.139113      0.629180
16 max_speed          0.166127      0.136817  ...   0.810014     -0.250949
17 length_2d          0.119064      0.461902  ...   0.089304      0.297092
18 length_3d          0.109574      0.472149  ...   0.095159      0.309235
19 moving_time       -0.087511      0.337420  ...  -0.509957      0.498105
20 avg_speed          0.101569     -0.015848  ...   1.000000     -0.367038
21 difficulty_num      0.510755      0.730115  ...  -0.367038      1.000000
22 [10 rows x 10 columns]
23 r2:      0.8519713090094235
24 MSE:    1778958.4785698114
25 r2:      0.8782863217498935
26 MSE:    1462713.6025591742
27 *** DEMO ***
28 Downhill: 300
29 Uphill: 700
30 Length: 10000
31 10.0
32 2.9333333333333336
33 2.5
34 DIN: 4:11:00
35 SAC: 4:15:00
36 Our Model: 2:53:39.380632
```

Entry prediction anhand Model 2?

HikePlanner

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Abwärts [m]

Aufwärts [m]

Distanz [m]

Predict

Dauer: 2:52:34.627203

DIN33466: 8:16:09.600000

SAC: 4:31:26.400000

Model automatisierung fuer #3 5000 pages for the spider

```
scrape hikr data 43s

1 ▶ Run scrapy crawl gpx -s CLOSESPIDER_PAGECOUNT=5000 -o file.jl
11 2024-03-24 20:34:59 [scrapy.utils.log] INFO: Scrapy 2.11.0 started (bot: spider)
12 2024-03-24 20:34:59 [scrapy.utils.log] INFO: Versions: lxml 5.1.0.0, libxml2 2.12.3, cssselect 1.2.0, parsel 1.8.1, w3lib 2.1.2, Twisted 22.10.0, Python 3.12.1 (main, Dec 8 2023, 05:40:51) [GCC 11.4.0], pyOpenSSL 23.3.0 (OpenSSL 3.1.4 24 Oct 2023), cryptography 41.0.7, Platform Linux-6.5.0-1016-azure-x86_64-with-glibc2.35
13 2024-03-24 20:34:59 [scrapy.addons] INFO: Enabled addons:
14 []
15 2024-03-24 20:34:59 [asyncio] DEBUG: Using selector: EpollSelector
16 2024-03-24 20:34:59 [scrapy.utils.log] DEBUG: Using reactor: twisted.internet.asyncioreactor.AsyncioSelectorReactor
17 2024-03-24 20:34:59 [scrapy.utils.log] DEBUG: Using asyncio event loop: asyncio.unix_events._UnixSelectorEventLoop
18 2024-03-24 20:34:59 [scrapy.extensions.telnet] INFO: Telnet Password: 7eb85a11a4f1cea5
19 2024-03-24 20:34:59 [scrapy.middleware] INFO: Enabled extensions:
20 ['scrapy.extensions.corestats.CoreStats',
21 'scrapy.extensions.telnet.TelnetConsole',
22 'scrapy.extensions.memusage.MemoryUsage',
```

Leider geht dieser Test zu lang, 440 pages = 17 min – keine Geduld – probieren wir 500

```
scrape hikr data 35s

1 ▶ Run scrapy crawl gpx -s CLOSESPIDER_PAGECOUNT=500 -o file.jl
11 2024-03-24 20:54:29 [scrapy.utils.log] INFO: Scrapy 2.11.0 started (bot: spider)
12 2024-03-24 20:54:29 [scrapy.utils.log] INFO: Versions: lxml 5.1.0.0, libxml2 2.12.3, cssselect 1.2.0, parsel 1.8.1, w3lib 2.1.2, Twisted 22.10.0, Python 3.12.1 (main, Dec 8 2023, 05:40:51) [GCC 11.4.0], pyOpenSSL 23.3.0 (OpenSSL 3.1.4 24 Oct 2023), cryptography 41.0.7, Platform Linux-6.5.0-1016-azure-x86_64-with-glibc2.35
13 2024-03-24 20:54:29 [scrapy.addons] INFO: Enabled addons:
14 []
15 2024-03-24 20:54:29 [asyncio] DEBUG: Using selector: EpollSelector
16 2024-03-24 20:54:29 [scrapy.utils.log] DEBUG: Using reactor: twisted.internet.asyncioreactor.AsyncioSelectorReactor
17 2024-03-24 20:54:29 [scrapy.utils.log] DEBUG: Using asyncio event loop: asyncio.unix_events._UnixSelectorEventLoop
18 2024-03-24 20:54:29 [scrapy.extensions.telnet] INFO: Telnet Password: b91e5351b02c78e9
19 2024-03-24 20:54:29 [scrapy.middleware] INFO: Enabled extensions:
20 ['scrapy.extensions.corestats.CoreStats',
```

- Hoehere MSE
- Tiefere R2

Mehr Daten haben also das Model nicht zwingend besser gemacht

```
build model

11
12 min_elevation    1.000000    0.778787    ...    0.096390    0.275548
13 max_elevation    0.778787    1.000000    ...    -0.155646    0.562959
14 uphill          0.011597    0.539129    ...    -0.379129    0.631188
15 downhill        -0.012906    0.559345    ...    -0.290535    0.630189
16 max_speed        0.233054    0.093111    ...    0.549707    -0.014394
17 length_2d        -0.092446    0.257728    ...    0.052840    0.330145
18 length_3d        -0.089401    0.277999    ...    0.041225    0.352568
19 moving_time      -0.176033    0.306236    ...    -0.414771    0.441751
20 avg_speed         0.096390    -0.155646    ...    1.000000    -0.273649
21 difficulty_num    0.275548    0.562959    ...    -0.273649    1.000000
22 [10 rows x 10 columns]
23 r2:    0.8468439079037262
24 MSE:   5053997.882257421
25 r2:    0.8258120764182023
26 MSE:   5748027.289334585
27 *** DEMO ***
28 Downhill: 300
29 Uphill: 700
30 Length: 10000
31 10.0
32 2.9333333333333336
33 2.5
34 DIN: 4:11:00
35 SAC: 4:15:00
36 Our Model: 2:52:22.369609
```

HikePlanner

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Abwärts [m]

Aufwärts [m]

Distanz [m]

Predict

Dauer: 2:07:10.454229

DIN33466: 8:16:09.600000

SAC: 4:31:26.400000

Die Dauer wird tiefer predicted. MSE ist aber hoeher...







Building Docker Image

```
=> [internal] load build context
[+] Building 76.1s (12/12) FINISHED
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 582B
=> [internal] load metadata for docker.io/library/python:3.12.1
=> [auth] library/python:pull token for registry-1.docker.io
=> [1/6] FROM docker.io/library/python:3.12.1@sha256:a3d69b8412f7068fd060ccc7e175825713d5a767e1e14753e75bce6f746c8a7e
=> [internal] load build context
=> => transferring context: 60.24kB
=> CACHED [2/6] WORKDIR /usr/src/app
=> [3/6] COPY backend/service.py backend/service.py
=> [4/6] COPY frontend/build frontend/build
=> [5/6] COPY requirements.txt requirements.txt
=> [6/6] RUN pip install -r requirements.txt
=> exporting to image
=> => exporting layers
=> => writing image sha256:91c999bbffaf428b4b751d7dab261e65d69af3f59ea972935f2ca24f190cb3a2
=> => naming to docker.io/mdcgl96/hikeplanner
```

What's Next?

View a summary of image vulnerabilities and recommendations → [docker scout quickview](#)

Docker Image gebaut und funktionsfaehig

 hikeplanner f169f8ee1d37 	mdcgl96/hikeplanner	Running	0.01% 9001:80 	4 minutes ago	  
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HikePlanner

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Abwärts [m]

Aufwärts [m]

Distanz [m]

Predict

Dauer: n.a.

DIN33466: n.a.

SAC: n.a.

Image gepusht + Azure resource group erstellt



mdcgl96/hikeplanner

Updated 1 minute ago

This repository does not have a description

Tags

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
 latest		Image	---	3 minutes ago

[See all](#)

mdm-hikeplanner

Resource group

Search

CreateManage viewDelete resource groupRefreshExport to CSVOpen queryAssign tags

Overview

Activity log

Access control (IAM)

Tags

Resource visualizer

Events

Settings

Deployments

Security

Deployment stacks

Policies

Properties

Essentials

ResourcesRecommendations

Filter for any field...Type equals allLocation equals allAdd filter


Showing 0 to 0 of 0 records.☐ Show hidden types ⓘNo groupingList view

Name ↑↓Type ↑↓Location ↑↓

Container instance created

Showing 1 to 1 of 1 records. ☐ Show hidden types ⓘ

☐ Name ↑↓

☐  mdm-hikeplanner

App ueber die cloud abrufbar

<http://mdm-hikeplanner.switzerlandnorth.azurecontainer.io/>

HikePlanner

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Abwärts [m] 

Aufwärts [m] 

Distanz [m] 

Predict

Dauer: n.a.
DIN33466: n.a.
SAC: n.a.


HikePlanner

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Abwärts [m] 

Aufwärts [m] 

Distanz [m] 

Predict

Dauer: 10:02:59.253936
DIN33466: 2 days, 21:48:33.600000
SAC: 3 days, 0:07:48