



Run Recommender

Elizabeth Glenn Guy, PhD

Motivation



Motivation



Elizabeth Glenn ran with Izi B, Sam Sites and 1 other

Today at 6:03 AM



Elizabeth Glenn

FLUR and catching up with Eileen!

Distance

6.12 mi

Pace

7:55 /mi

Time

48m 33s

Achievement:



1

Strava - Find new Routes!

However, searching for routes is tedious

Solution: Run Recommender with Strava API

Methods



Authorize
Strava user




Tokens in
MongoDB



Get run
activity into
pandas df



Filter runs on
distance from
start location



Euclidean
Distance - top
20 runs



Group runs -
Hierarchical
Clustering
with Cosine
Similarity



Suggest 5
runs - drawing
from most
popular run
routes first

Tools Utilized



Pandas



Flask



Website



<http://pnwrun.org>

Next Steps



- Sort for route proximity based on points along route, not just start lat, long
- Sort loops, point to point, trail vs road
- Export .gpx files for routes
- Filter out runs around tracks

Contact



Elizabeth Glenn Guy, PhD

Neuroscientist turned Data Scientist

Email

elizg23@yahoo.com

Github

<https://github.com/elizabethguy86>

LinkedIn

<https://www.linkedin.com/in/elizabeth-guy/>