

The background is a stylized, layered mountain landscape in various shades of brown, tan, and orange. A bright yellow sun is partially obscured by a dark, triangular rock formation in the upper center. The text is centered over the middle of the image.

ROCK CLIMBING RATING PREDICTOR

BY LEAH NAGY



01

DESIGN

DESIGN - CLIENT'S NEEDS

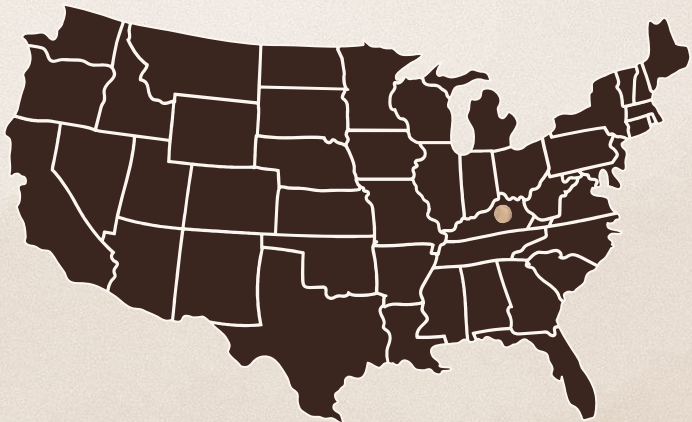
Client: Rock Climbing Guides of Kentucky

Need: They are looking to expand the number of routes they take their clients to.

Goal: Understanding which attributes affect the average user-rating on rock climbing app to optimize the experience.



KENTUCKY ROCK CLIMBING



 **RED RIVER GORGE AREA**
The rock climbing mecca of the East coast



Over 3,000 climbing routes and 100+ cliffs

The background is a stylized, painterly illustration of a mountain range. The mountains are rendered in various shades of brown, tan, and orange, with soft, blended edges. A large, bright orange, semi-circular shape, resembling a rising or setting sun or moon, is positioned in the upper center of the frame. The overall color palette is warm and earthy.

02

DATA



DATA - WEB SCRAPING



FEATURE

VALUE

ROUTE NAME	ZERO DARK FIDDY
DIFFICULTY	5.13A
LENGTH OF ROUTE	75 FT
SHARE DATE	DEC 4, 2021
MONTHLY VIEWS	40 VIEWS

** MORE FEATURES WERE SCRAPPED, SEE
NOTEBOOK FOR ALL FEATURES**

All Locations > Kentucky > Red River Gorge > Bald Rock Fork... > Bear's Den

Zero Dark Fiddy

5.13a YDS ★★★★★ Avg: 4 from 1 vote

Type: Sport, 75 ft (23 m)
FA: Dru Mack, Scott Curran 2013
Page Views: 105 total - 40/month
Shared By: Jonathan Laferriere on Dec 4, 2021
Admins: Shirtless Mike, saxfiend, DrRockso, Billy Simek

You & This Route 1 Opinions

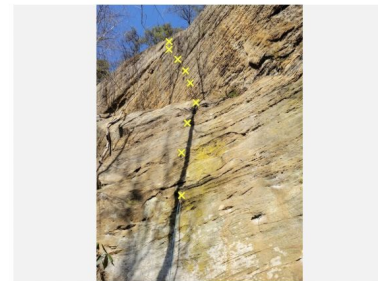
Your To-Do List: [Add To-Do](#) · [View List](#)

Your Star Rating: ★★★★★

Your Difficulty Rating: -none- [Change](#)

Your Ticks: [Add New Tick](#)

-none-



⚠ **Access Issue:** Owned and managed by the RRGCC. Make sure to visit the Coalition's website to review their regulations and donate to help maintain climbing access in the RRG. [Details](#)

Description

Tech up the vertical face to a great stance before the overhang. Charge up the 5.12- steep face on pumping edges to a heartbreaker crux before the last bolt. Embrace the heinous for a move or two then recollect yourself on some iron jugs before navigating to the anchor.

Location

Smack dab in between Pinkalicious and 72 Hour Energy.

Protection

8 bolts, bolt anchor

DATA - SUMMARY



TARGET

Model Prediction:
Average User Rating



FEATURES

Initial Model: 17 Features
Final Model: 18 Features



ROUTES

Initial Model: 2,258 Routes
Final Model: 1,978 Routes

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03

TOOLS

TOOLS USED



python



pandas

Beautifulsoup

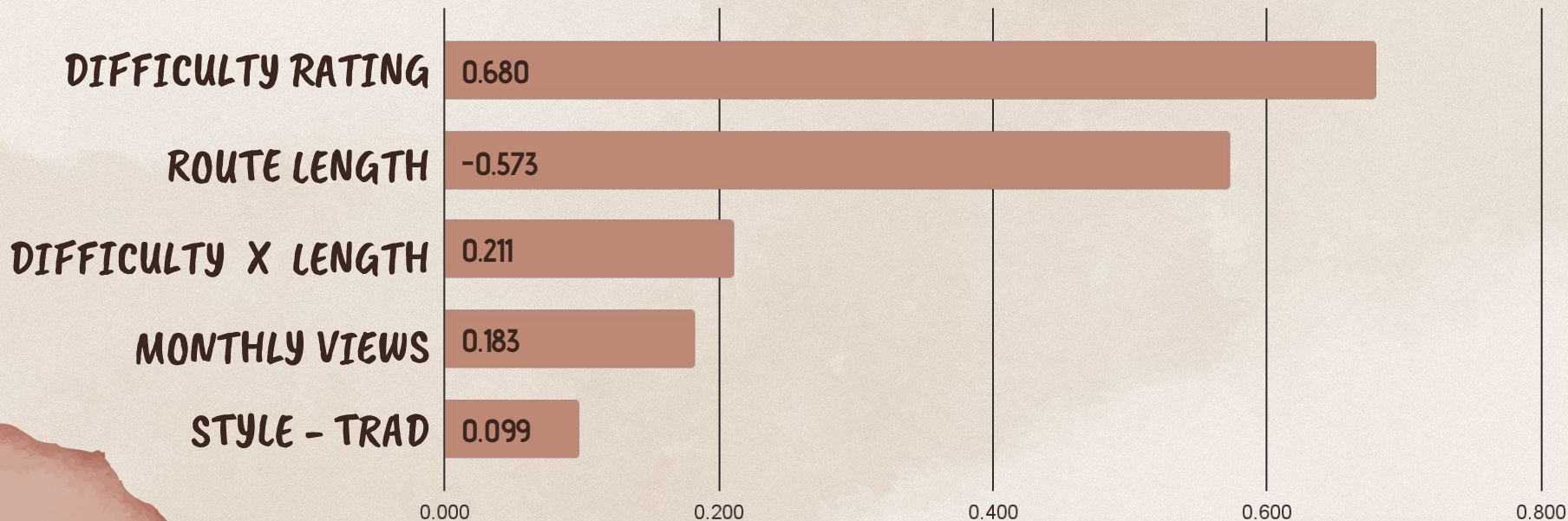


The background is a stylized, painterly illustration of a mountain range. The mountains are rendered in various shades of brown, tan, and orange, with soft, blended edges. A large, bright orange circle, resembling a sun or moon, is positioned in the upper center, partially obscured by the mountain peaks. The overall color palette is warm and earthy.

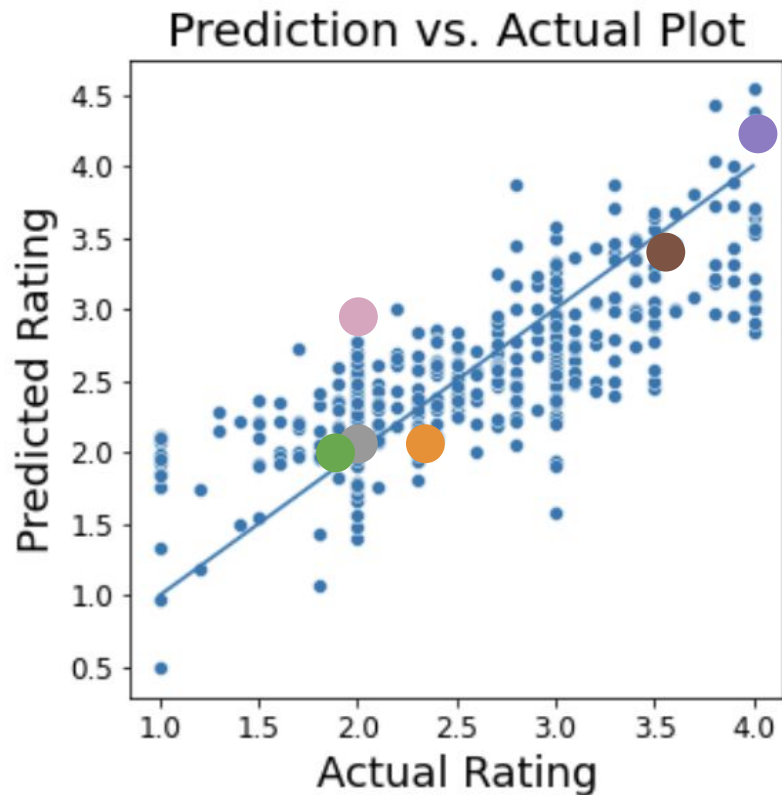
04

RESULTS

MOST INFLUENTIAL VARIABLES



ACTUAL RESULTS VS. PREDICTED RESULTS



	user-rating	prediction
name		
Son of a Wanted Man	2.4	2.060747
Zero Dark Fiddy	4.0	3.846304
King Pin	1.9	1.726609
Dragon's Wing	2.0	2.900000
Pop Tart	2.0	1.807513
Renegade	3.5	2.927258

The background is a stylized illustration of a landscape. It features rolling mountains in shades of brown and tan. In the top right corner, there is a large, textured orange circle representing the sun. The overall style is painterly and minimalist.

MAE = 0.374

RECOMMENDATIONS FOR CLIENT



DIFFICULTY

Users prefer more challenging routes



LENGTH OF ROUTE

Shorter routes are more popular among climbers



NO. ROUTES ON WALL

Had little effect on the average user-rating



LOCATION

Had little effect on the average user-rating

Overall: Choose routes that are shorter but more challenging in areas you're most familiar with.

THANKS

INQUIRIES

<https://www.linkedin.com/in/leah-j-naqy/>

FULL PROJECT CODE

<https://github.com/leahnaqy>

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