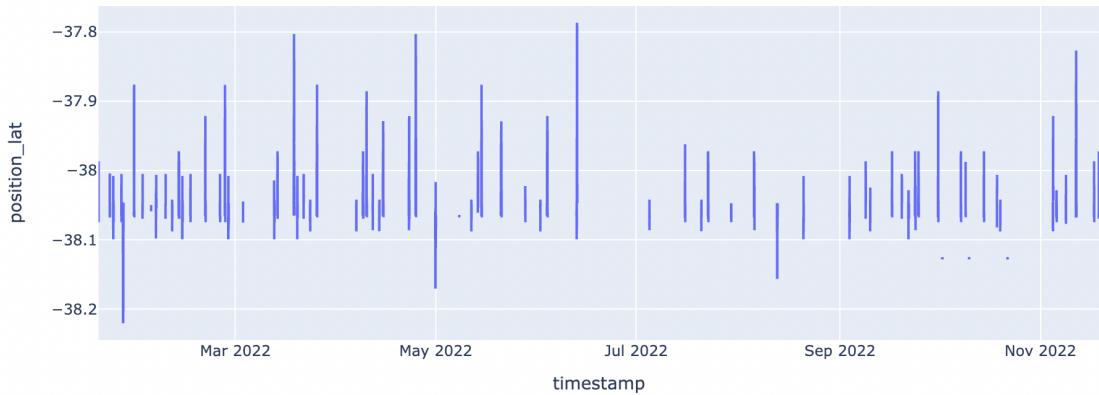


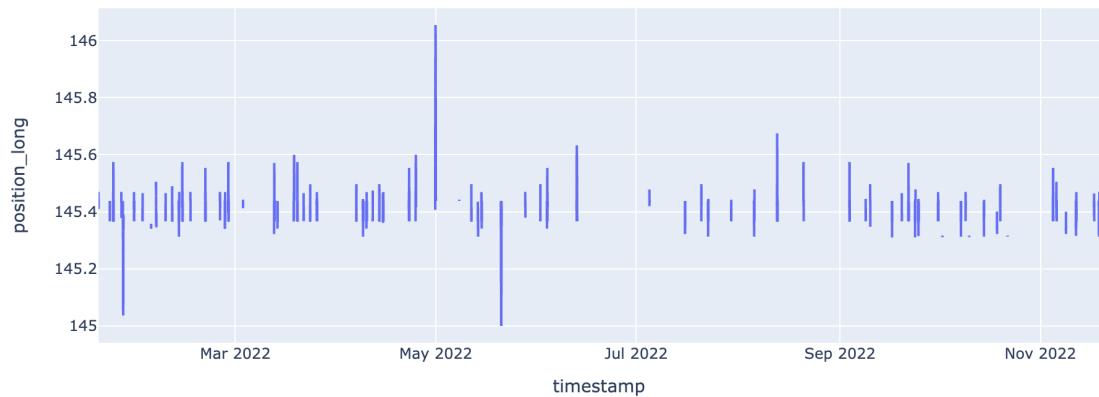
### position\_lat Over Time



position\_lat

x ▾

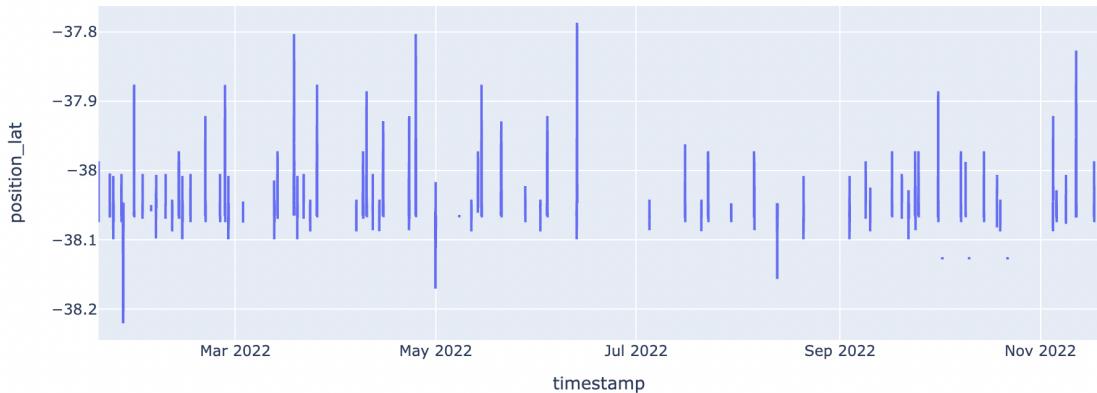
### position\_long Over Time



position\_long

x ▾

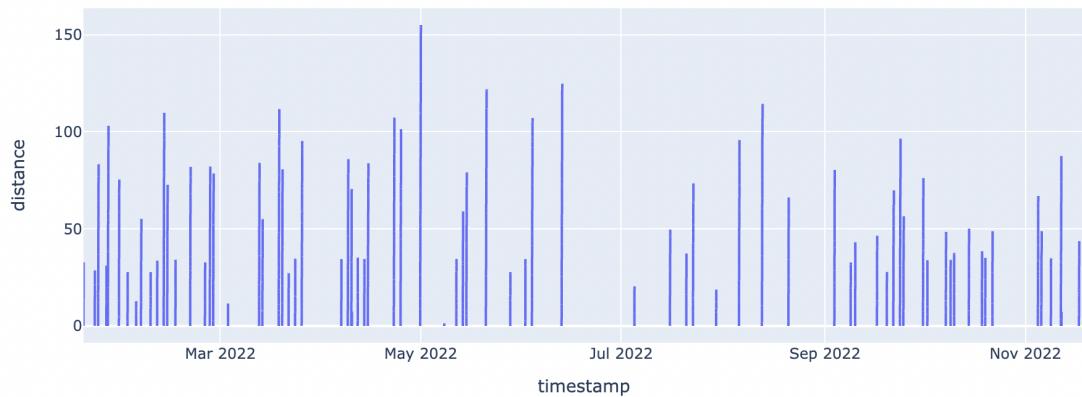
### position\_lat Over Time



position\_lat

x ▾

### distance Over Time



distance

x ▾

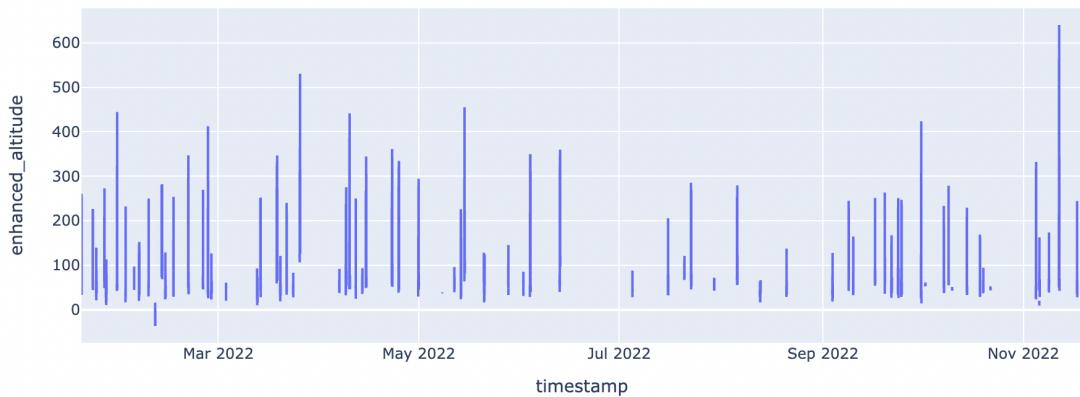
### position\_lat Over Time



position\_lat

x ▾

### enhanced\_altitude Over Time



enhanced\_altitude

x ▾

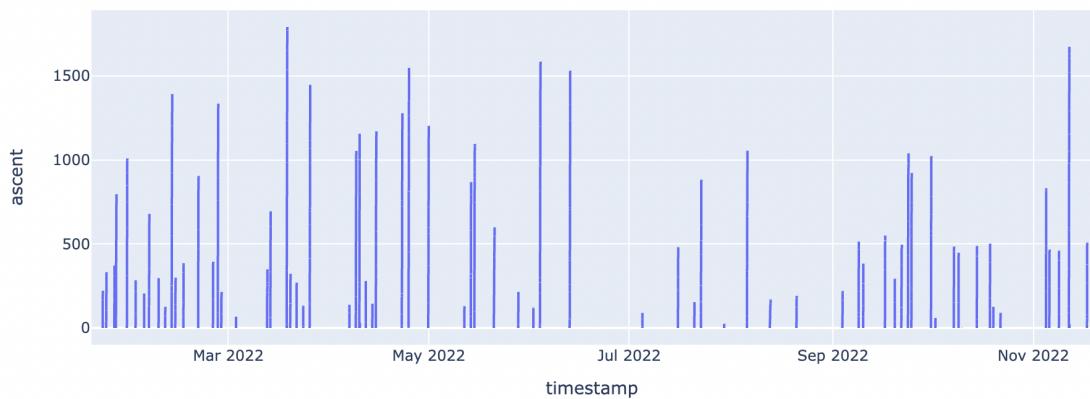
### position\_lat Over Time



position\_lat

x ▾

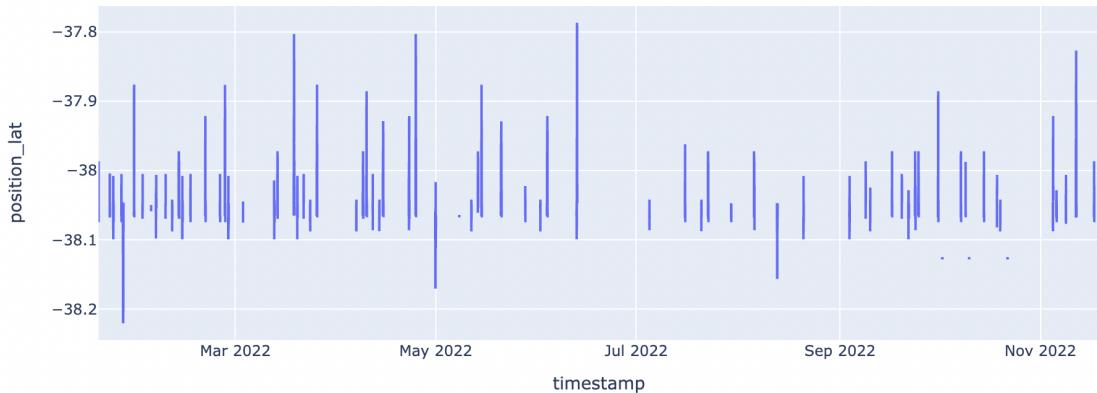
### ascent Over Time



ascent

x ▾

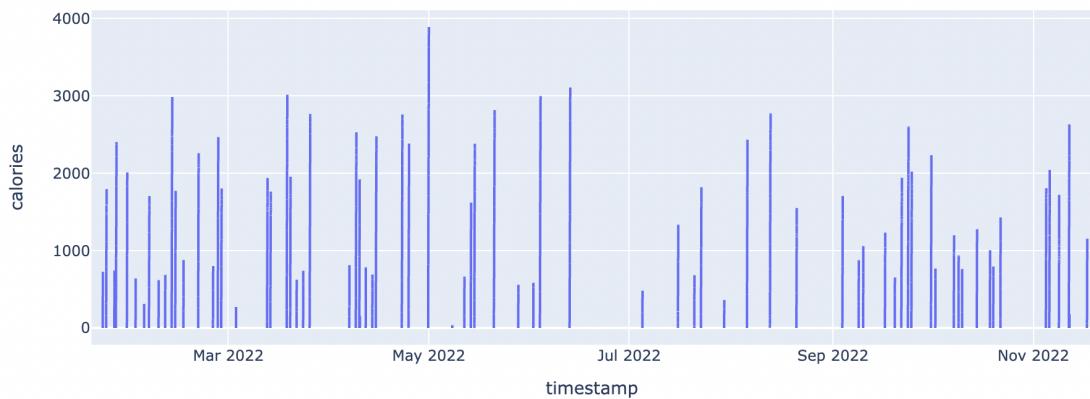
### position\_lat Over Time



position\_lat

X ▾

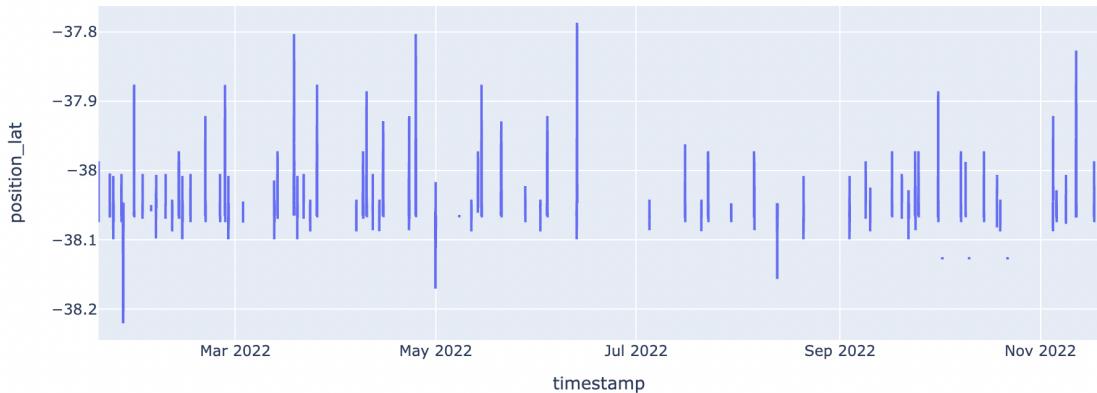
### calories Over Time



calories

X ▾

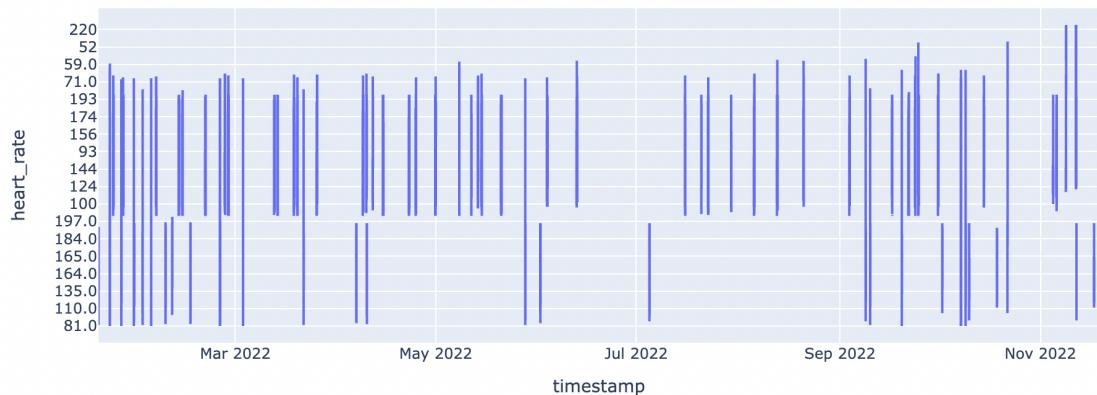
### position\_lat Over Time



position\_lat

x ▾

### heart\_rate Over Time



heart\_rate

x ▾

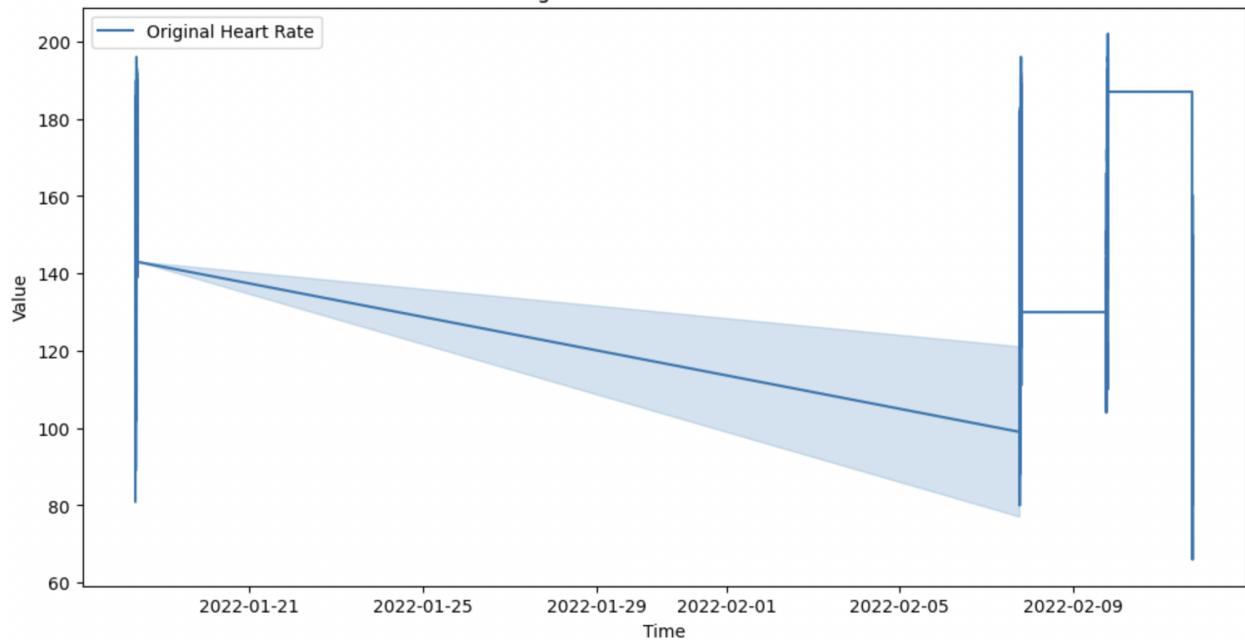
### position\_lat Over Time



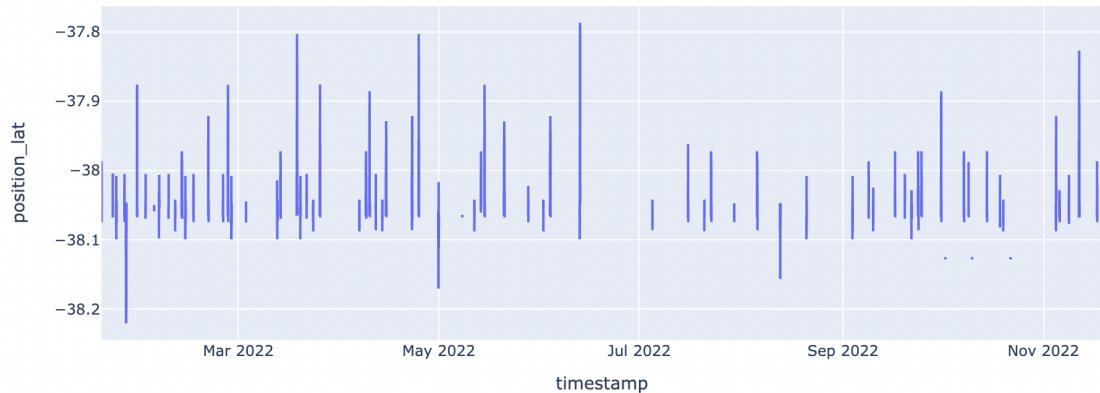
position\_lat

x ▾

### Original Heart Rate Over Time



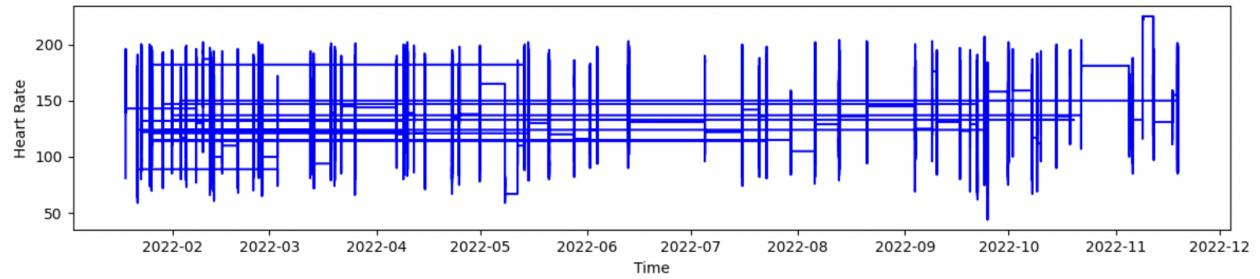
### position\_lat Over Time



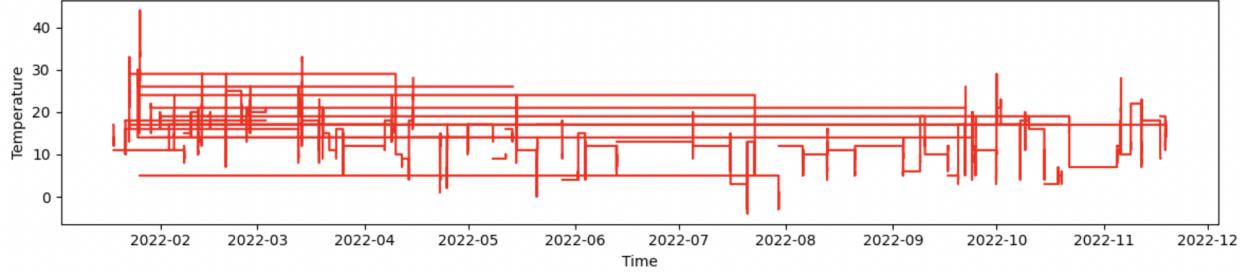
position\_lat

X ▾

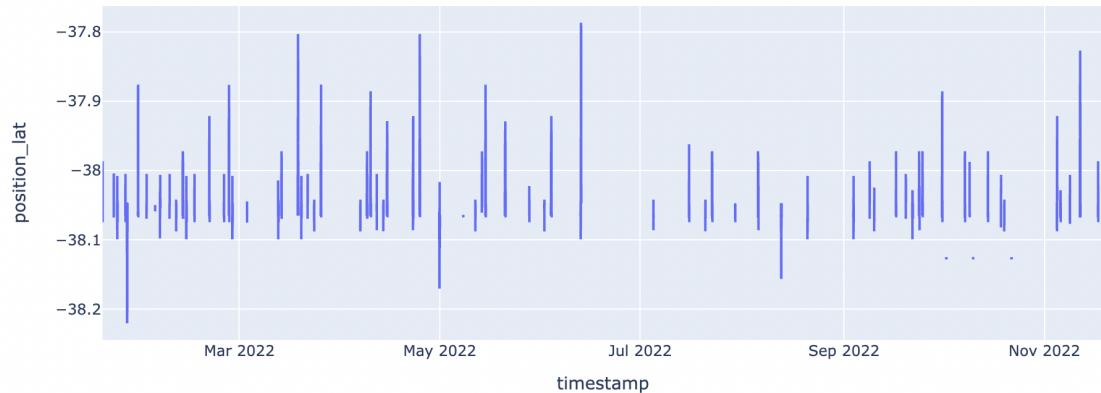
### Heart Rate Over Time



### Temperature Over Time



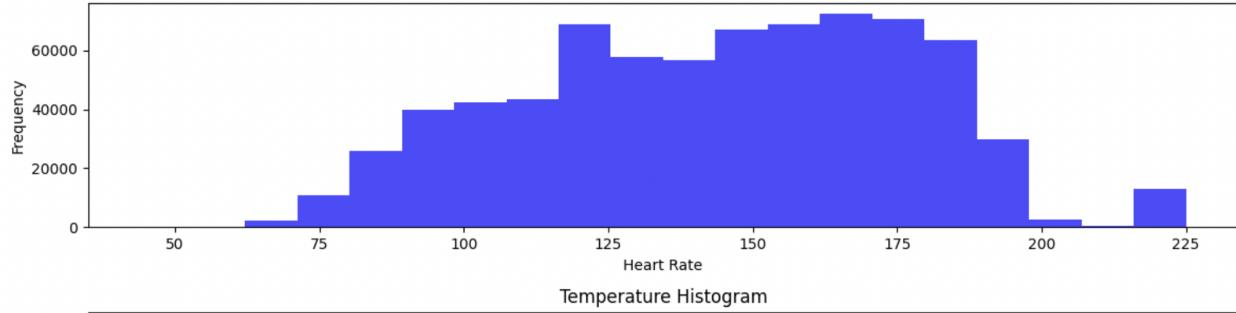
### position\_lat Over Time



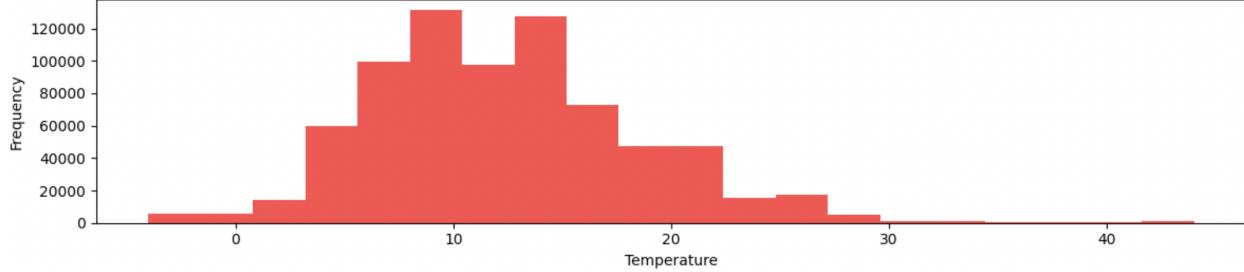
position\_lat

X ▾

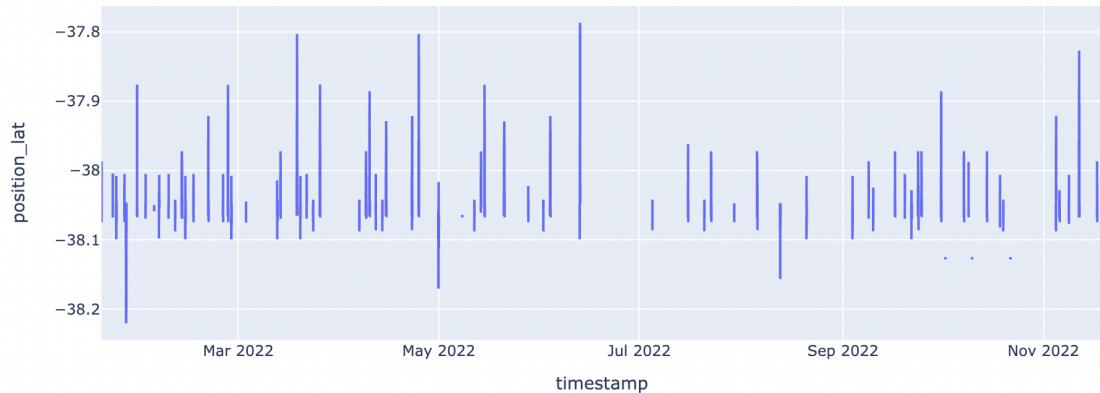
Heart Rate Histogram



Temperature Histogram



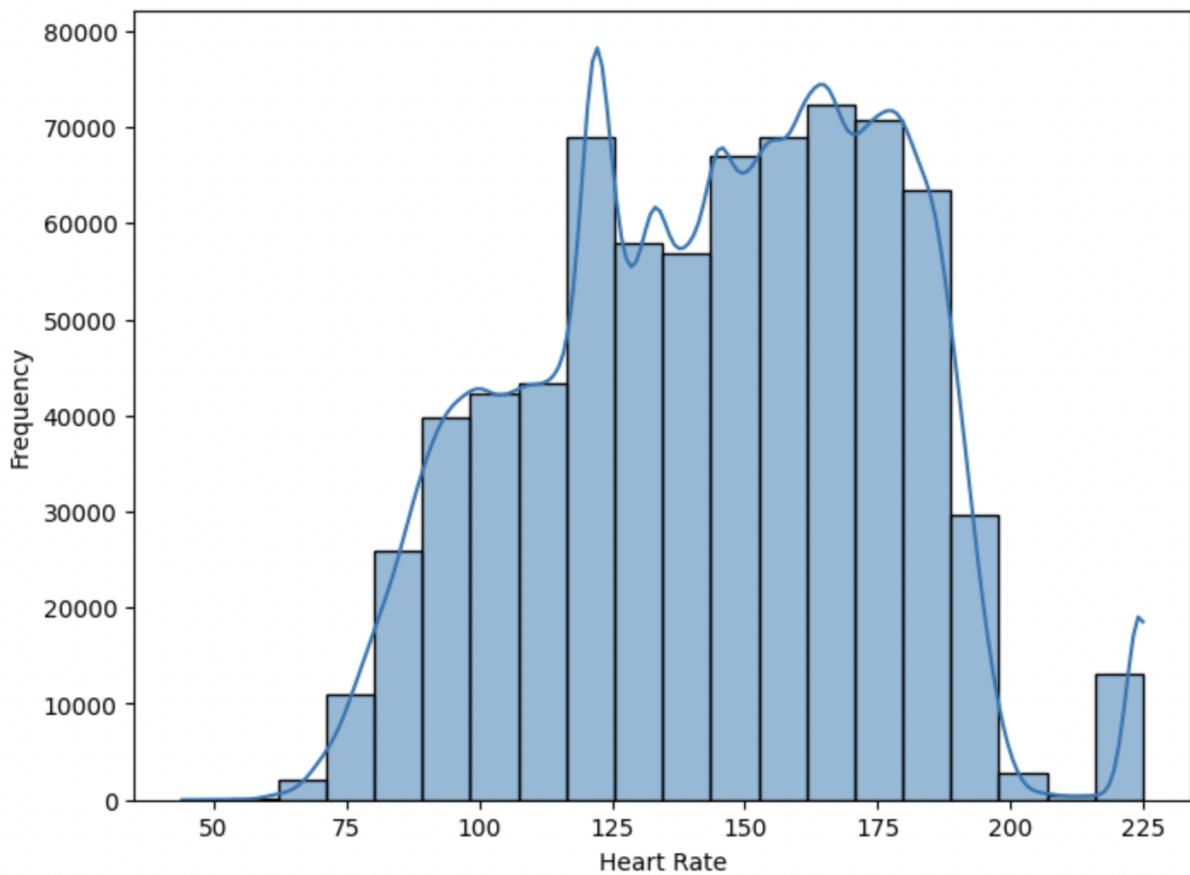
### position\_lat Over Time



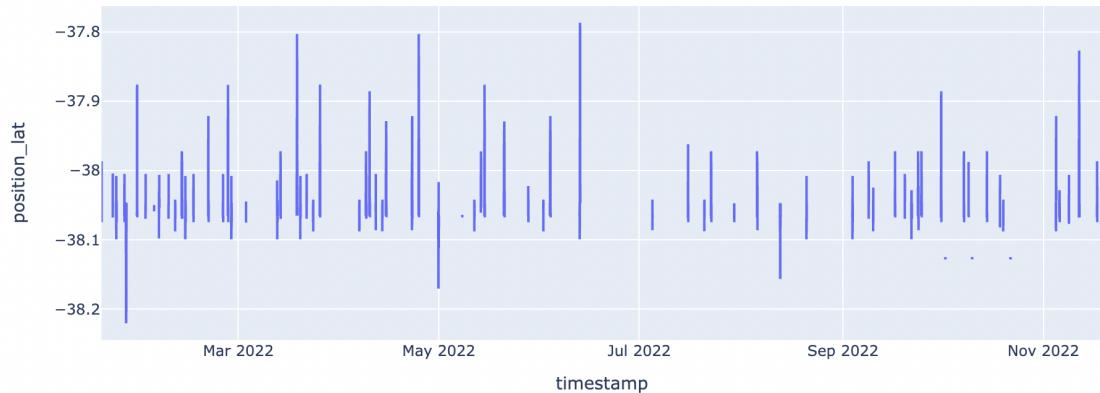
position\_lat

x ▾

### Distribution of Heart Rate



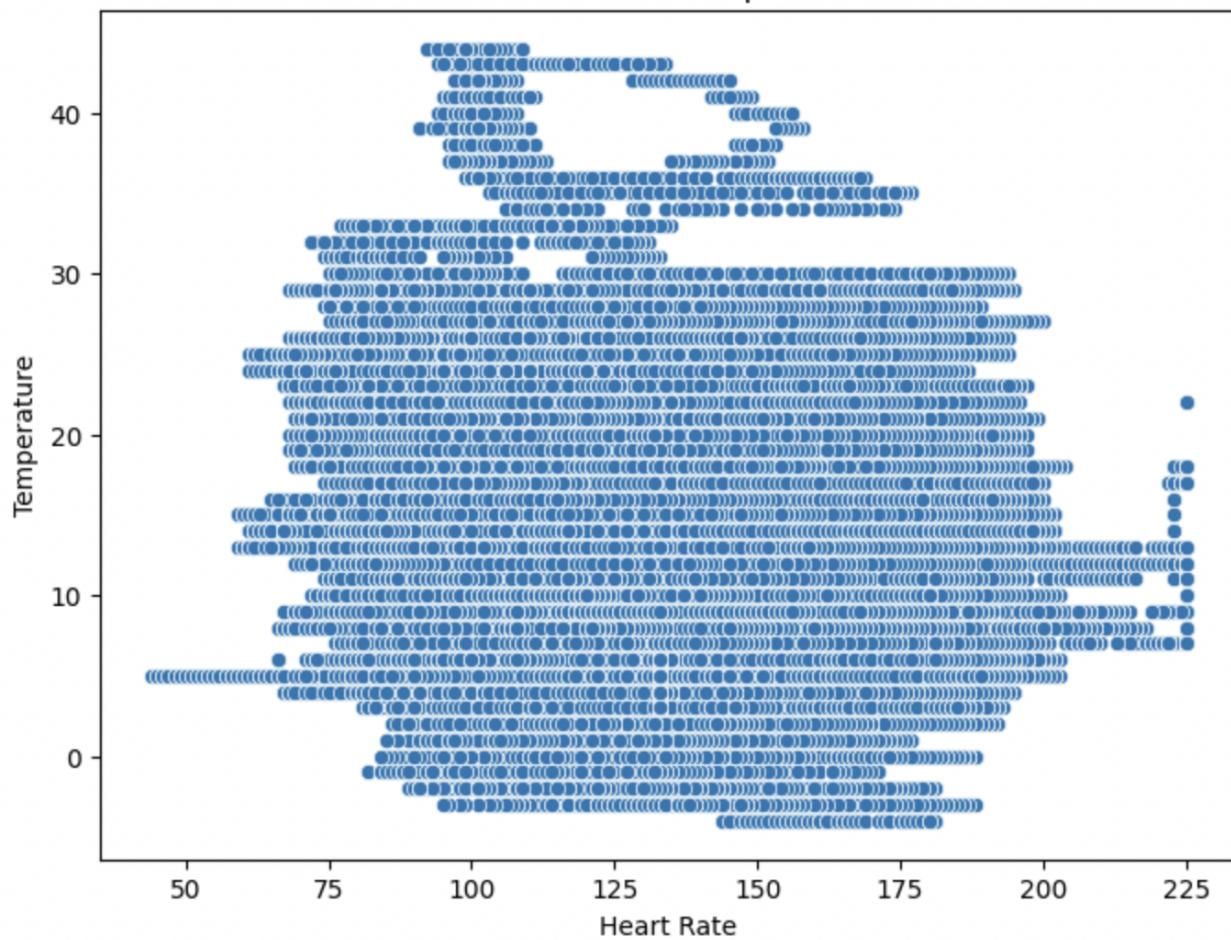
### position\_lat Over Time



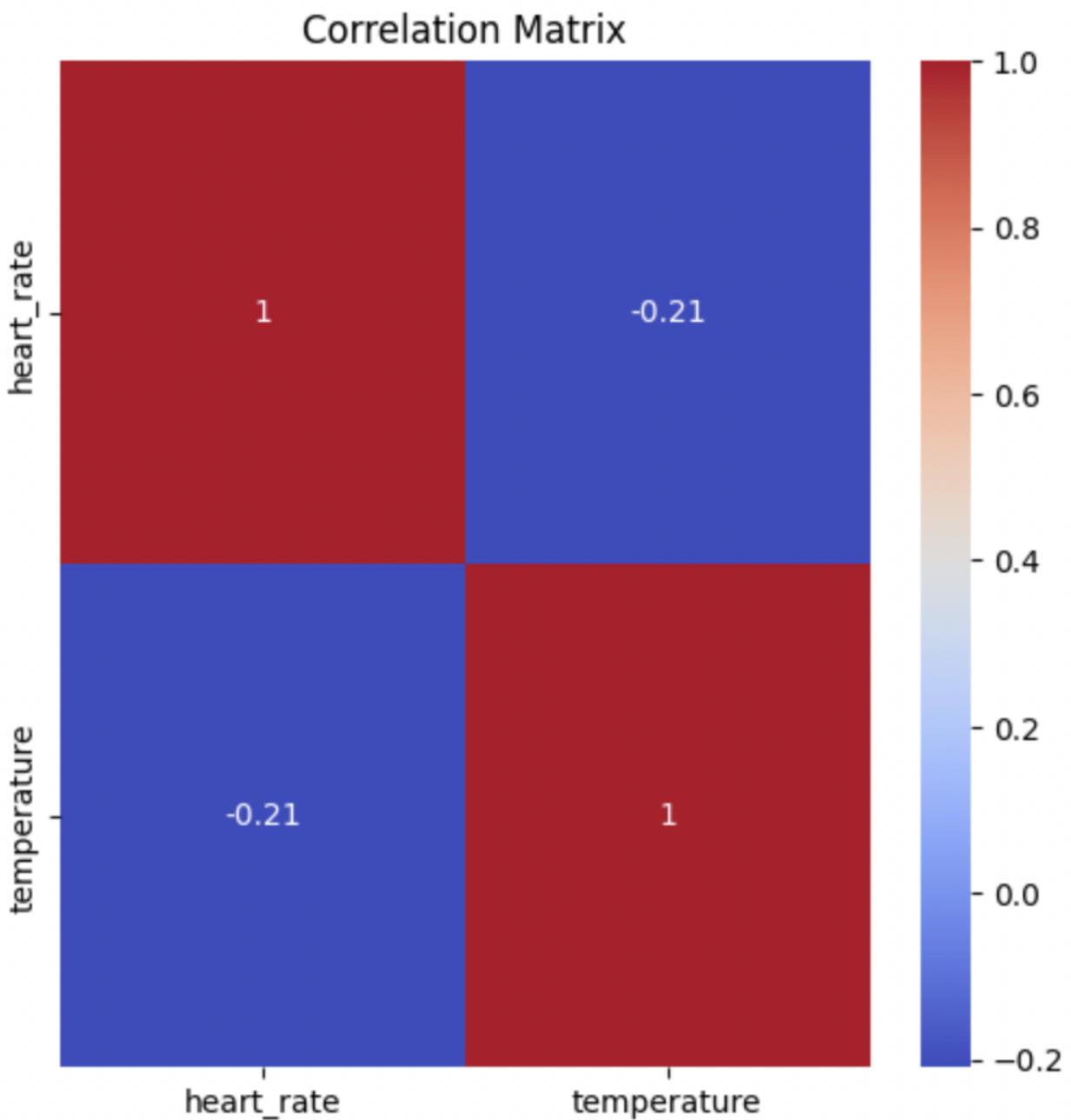
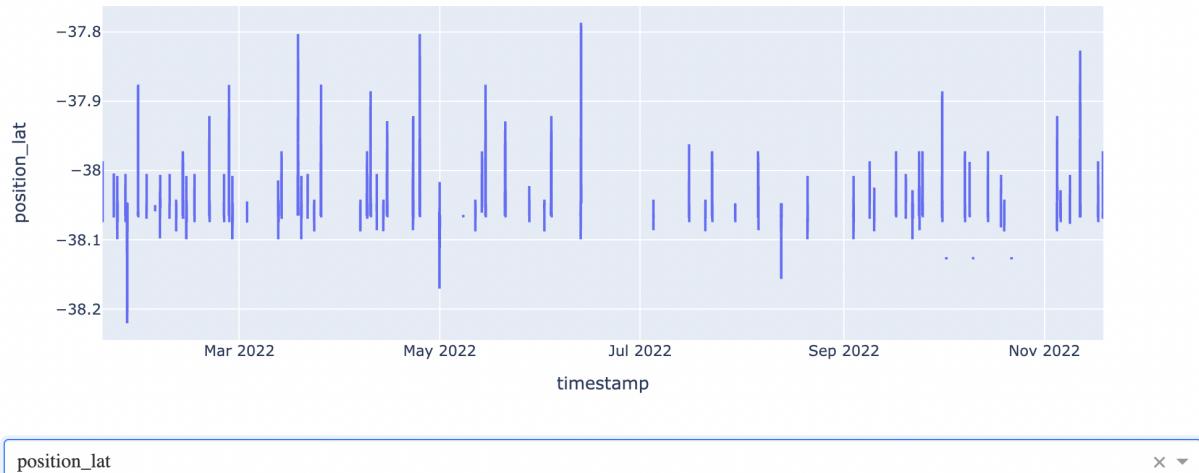
position\_lat

x ▾

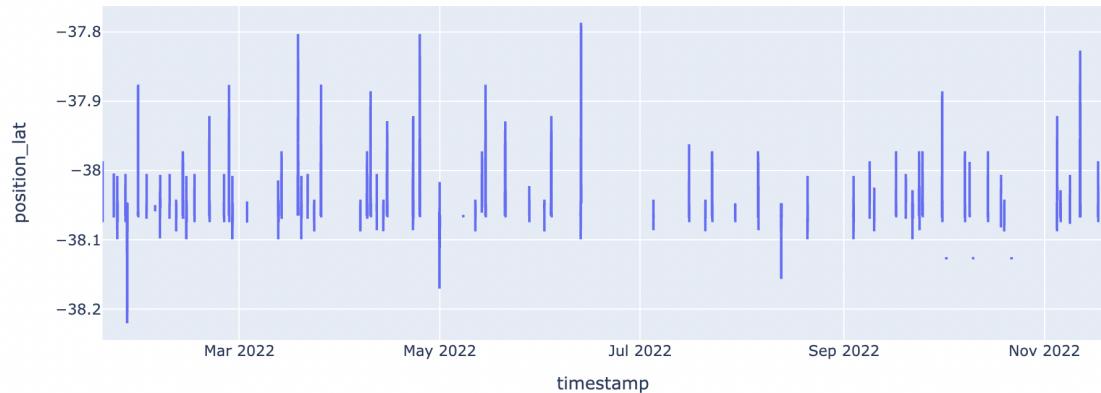
### Heart Rate vs Temperature



position\_lat Over Time



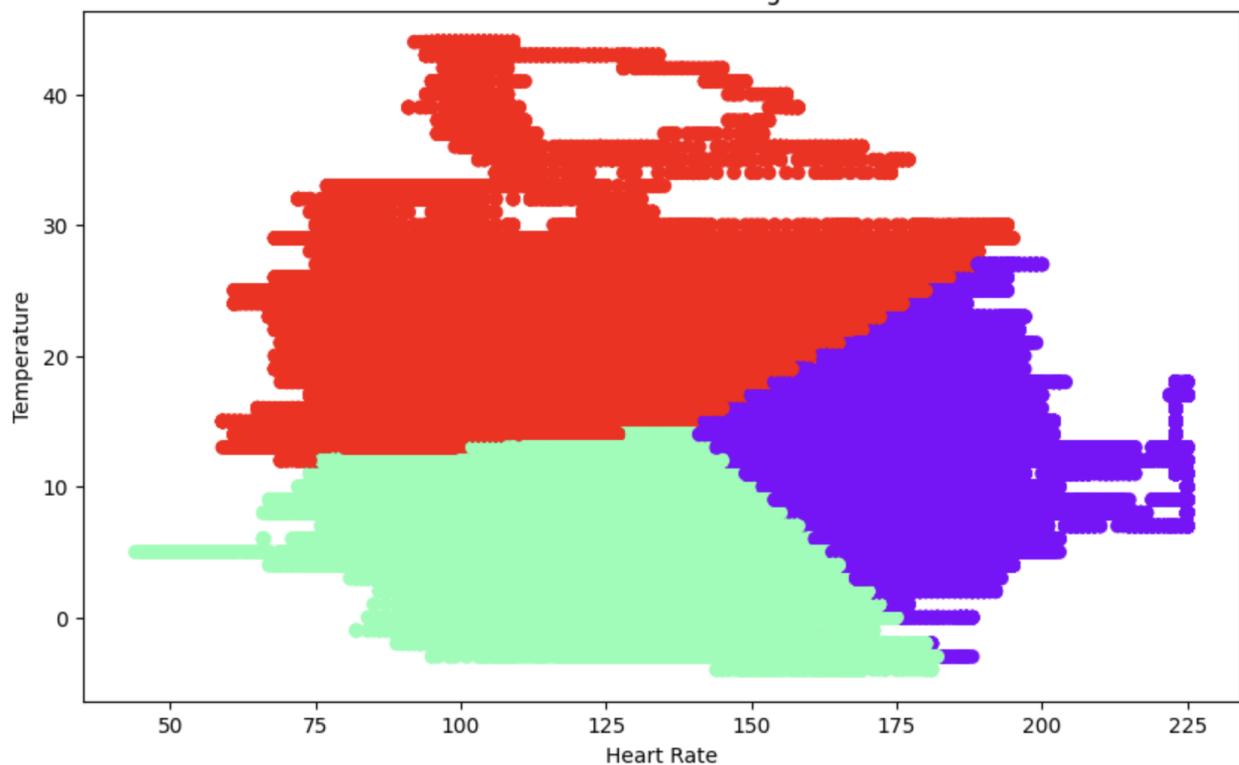
### position\_lat Over Time



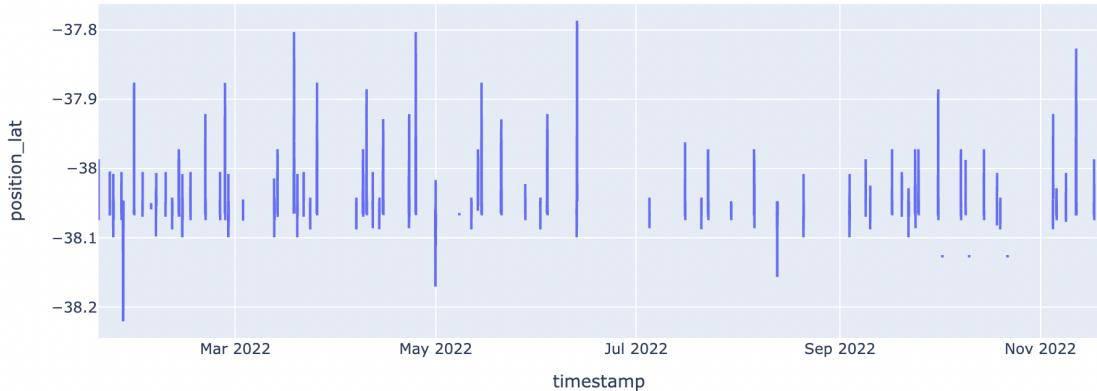
position\_lat

x ▾

### K-means Clustering



## position\_lat Over Time



position\_lat

A screenshot of a Trello board titled "Project 4 - Wearable Sensors". The board has four columns: Data Analytics, IOT AND EMBEDDED SYSTEMS, Mobile App, and Web Development. Each column has several cards representing tasks. A search bar at the top right shows the query "position\_lat".

**Data Analytics**

- To-Do
- User Interface Integration
- In-Progress
- Create Mock Data for Analysis
- Done
- Data Preprocessing and Feature Extraction
- Injury Risk Factors Research
- Data Validating and Cleaning
- Data Analysis with Mock Data
- Data Collection Setup
- Github Setup
- Task 2.1- Come up with Aims, Objectives and deliverables for trimester

**IOT AND EMBEDDED SYSTEMS**

- TO-DO
- Write code for gps module to work with the portable microcontroller for calculating speed and distance of athlete
- research on sensors that can be used for measuring distance covered and oxygen measuring
- IN - PROGRESS
- Working on getting gps module started and researching about the microcontroller needed for it
- Compare different types of gyroscopes and temperature sensor and find best suitable for

**Mobile App**

- TO-DO
- Develop personalized workload recommendations based on real-time injury risk assessments and sensor data.
- Research existing protocols for sensor data and android apps - start with heart rate
- Implement data visualization capabilities to display trends and historical data for performance and health insights.
- Allow users to adjust and customize workload settings based on individual preferences.
- Identify suitable libraries or frameworks for data visualization in the app (e.g., charts, graphs).
- Prepare user documentation on how athletes and staff can interact with the app's features effectively.

**Web Development**

- TO DO
- Setup Github Repository
- Assign roles for our low-fidelity interface
- Determine the framework we will use for project
- IN - PROGRESS
- Develop UML
- Design low-fidelity interface
- Design high-fidelity interface
- Distinguish possible functions/features to include into the project
- DONE
- Determine whether to use previous design from last trimester or come

## position\_lat Over Time



position\_lat

Mobile App - Project 4 - Term 2 ... Chat Files +

Monday

Monday 9:05 pm

Hi guys, hope everyone's work is going well. So we have the individual retrospective coming up at the end of the week and you should have an idea by now of what you'll be including as your achievements. If you have any questions/concerns regarding the upcoming submission, do reach out to me. Thanks

SAHIL GUGLANI Monday 9:43 pm

Can you please tell what sorts of evidences are to be provided... Like I have made some designs on Figma and made simple designs in Android Studio.... So, what else is required as we have to provide different evidences as per the tasks requirements for P, C, D and HD

Monday 11:31 pm

So basically the main sources of evidence are Github, Teams and your personal notes/ outputs. In Github you can show your commits, reviews, codes and other docs. From teams you can show meetings and messages to company representatives/cohorts/peers. In your personal evidence you can show notes, up skilling output and reflections from your learnings.

For HD, you'll have to include a presentation and a brief recording of you presenting your work along with the above evidence. Hope that clears your doubt [SAHIL GUGLANI](#)

Tuesday

DENICA HOPE Tuesday 8:49 am

Hi, unfortunately I have had to withdraw from this subject for this trimester. I didn't make any major changes to the code that is already available on github so you can still just reference that if needed. Good luck with the rest of the project.

Wednesday

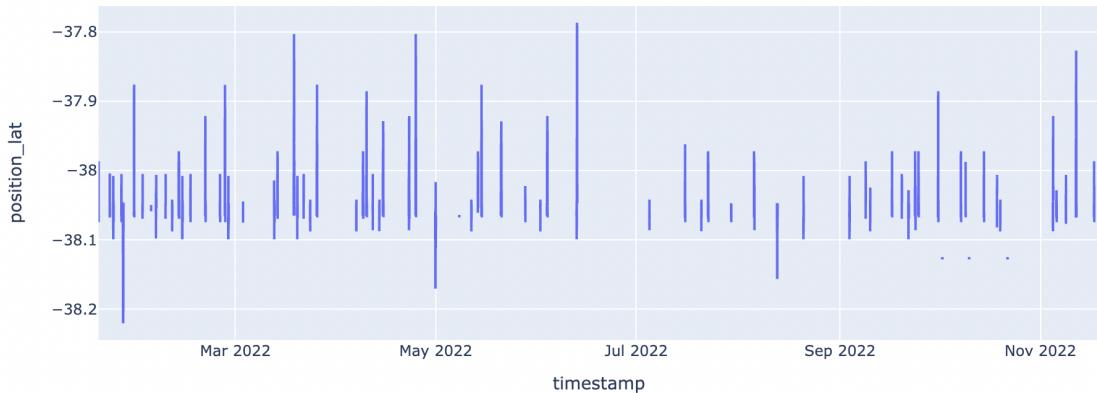
Wednesday 3:37 pm

Ah, that's alright. Thanks [DENICA HOPE](#) for all the contributions and it was great to have you 😊

Type a new message

...

## position\_lat Over Time



position\_lat

X ▾

B O Data analysis Team - Project 4 Chat Files +

03/08 12:21 am

I have already talked to Prastut but I'll ask again if there's any update regarding the data.

BHUMIKA CHAUHAN 03/08 12:33 am

BC It seems like we can also have a conversation with Thomas. Today, when I spoke with Imali about this matter, she informed me that Prastut and Thomas were responsible for managing all the data from the previous year. As a result, they could be valuable resources to assist us.

03/08 11:10 am

Yeah, I've dropped a text to him as well and am waiting on word back. So hopefully the data will be with us by the end of this week, till then for our individual retrospective you guys can start with research.

<https://towardsdatascience.com/measuring-user-engagement-with-cohort-analysis-96c46b386862>

Measuring User Engagement with Cohort... ×  
SQL for heavy lifting, Pandas for deep diving  
towardsdatascience.com

Hopefully this will help you guys think

OJASVI SINGH 03/08 11:19 am

OS We can definitely get started with this. Great

Monday

Like for starters you could create a dummy dataset to play around with

Monday 8:54 pm

Hi so with the analytics team I just wanted to confirm that all of us have a dataset now to work on right?

Yesterday

Type a new message

Attachment icons: file, link, image, video, audio, gif, emoji, etc.

Send icon

### position\_lat Over Time



position\_lat

x ▾

