

00:00:00.000 --> 00:00:01.570

WILLIAM HEBBLEWHITE

I was. I was talking to myself.

00:00:01.510 --> 00:00:04.220

VINAY RATTA

I thought it was my device.

00:00:04.480 --> 00:00:06.800

WILLIAM HEBBLEWHITE

Alright, recording started and.

00:00:08.470 --> 00:00:10.060

WILLIAM HEBBLEWHITE

Transcription started.

00:00:14.920 --> 00:00:16.970

WILLIAM HEBBLEWHITE

Welcome, everybody. I hope you're doing well.

00:00:17.020 --> 00:00:17.890

WILLIAM HEBBLEWHITE

No, no.

00:00:20.190 --> 00:00:22.870

WILLIAM HEBBLEWHITE

Let's begin with.

00:00:23.840 --> 00:00:24.380

WILLIAM HEBBLEWHITE

Dumb.

00:00:28.760 --> 00:00:36.030

WILLIAM HEBBLEWHITE

Ah, well, let's begin with the daughter engineering team. How are you guys progressing? What are you working on? And?

00:00:37.460 --> 00:00:37.890

WILLIAM HEBBLEWHITE

Come.

00:00:38.750 --> 00:00:41.790

WILLIAM HEBBLEWHITE

What is sort of your goals for the next week or two?

00:00:42.650 --> 00:01:09.500

VINAY RATTA

Yeah. Hi, William. Uh, I just had meeting, meeting up with shashwat like a day before, so he has recommended that he will get some. Gotta like from a working device. But in the meanwhile, as you as we all agreed to produce some data. So we can, you know, start analyzing something right. And I have did this week I have did my research on.

00:00:50.080 --> 00:00:50.460

WILLIAM HEBBLEWHITE

Uh-huh.

00:01:09.560 --> 00:01:16.160

VINAY RATTA

Creating random values in Python I have just created like a small document. If everyone would like to see.

00:01:16.890 --> 00:01:17.990

WILLIAM HEBBLEWHITE

Yeah. Why don't you share that?

00:01:18.300 --> 00:01:18.610

VINAY RATTA

Yep.

00:01:46.950 --> 00:01:48.290

VINAY RATTA

Sorry, it's just taking time.

00:01:48.900 --> 00:01:49.810

WILLIAM HEBBLEWHITE

No worries.

00:01:52.160 --> 00:01:57.990

VINAY RATTA

In the meanwhile, is there anything short would like to share or a landline?

00:01:59.320 --> 00:01:59.900

WILLIAM HEBBLEWHITE

I like.

00:01:59.900 --> 00:02:06.250

VINAY RATTA

'cause of the yeah, we tried to connect with leg link, but I think he was kind of busy, so.

00:01:59.960 --> 00:02:01.800

WILLIAM HEBBLEWHITE

I think Mann things here.

00:02:07.620 --> 00:02:08.130

WILLIAM HEBBLEWHITE

Yeah.

00:02:08.530 --> 00:02:12.410

SHASHVAT JOSHI

Regarding the data, I will be able to upload it by Saturday or Sunday morning.

00:02:12.550 --> 00:02:12.980

WILLIAM HEBBLEWHITE

OK.

00:02:13.170 --> 00:02:17.620

SHASHVAT JOSHI

And I'll just give a notification to win and William and they can have a look through it.

00:02:19.330 --> 00:02:21.400

WILLIAM HEBBLEWHITE

Yeah, we'll have to have a look through the.

00:02:22.030 --> 00:02:23.630

WILLIAM HEBBLEWHITE

Data to see what sort of.

00:02:25.000 --> 00:02:30.790

WILLIAM HEBBLEWHITE

Pre processing it needs to go through as well as whether it needs to be.

00:02:29.620 --> 00:02:31.480

SHASHVAT JOSHI

Yeah, I love you.

00:02:31.520 --> 00:02:32.290

WILLIAM HEBBLEWHITE

Analyzed.

00:02:32.720 --> 00:02:36.670

WILLIAM HEBBLEWHITE

Uh, anonymized a little further and that sort of stuff.

00:02:38.670 --> 00:02:41.100

WILLIAM HEBBLEWHITE

So yeah, as soon as you have access to that data.

00:02:41.150 --> 00:02:41.850

WILLIAM HEBBLEWHITE

Yeah, yeah.

00:02:43.630 --> 00:02:46.920

WILLIAM HEBBLEWHITE

You can share it, share the links and we will have a look through it.

00:02:48.150 --> 00:02:48.750

SHASHVAT JOSHI

Yeah, sure.

00:02:52.300 --> 00:02:53.680

VINAY RATTA

Also sorry.

00:03:01.290 --> 00:03:06.030

VINAY RATTA

Sorry, I think I'll just do it after someone. I'm just trying to find the file.

00:03:06.420 --> 00:03:07.300

WILLIAM HEBBLEWHITE

No worries.

00:03:07.480 --> 00:03:09.810

VINAY RATTA

Uh, I think I got it. So I yeah.

00:03:07.810 --> 00:03:08.040

WILLIAM HEBBLEWHITE

Uh.

00:03:10.990 --> 00:03:11.620

VINAY RATTA

Sorry.

00:03:11.060 --> 00:03:11.490

WILLIAM HEBBLEWHITE

Cool.

00:03:12.210 --> 00:03:17.540

WILLIAM HEBBLEWHITE

OK, so let's go to the A sales analysis team.

00:03:19.380 --> 00:03:19.990

WILLIAM HEBBLEWHITE

Uhm.

00:03:20.640 --> 00:03:24.880

WILLIAM HEBBLEWHITE

Can you update us on what you guys have been doing or what you guys have been looking at?

00:03:21.010 --> 00:03:21.350

ANH QUAN HUA

Ah.

00:03:25.430 --> 00:03:52.420

ANH QUAN HUA

Uh, Yep. So in the past week, our team has been on his listing two data sets, so I'll then they, GAURI, Bowen and Shalu has been working on the 2017 and 2019 data sets and they have produced some pretty neat graphs. But I will let them to show that if they want to and I've been working on making an account for the marketability of the fitness game development, so.

00:03:51.890 --> 00:03:52.270

WILLIAM HEBBLEWHITE

Uh-huh.

00:03:53.390 --> 00:04:20.030

ANH QUAN HUA

You know, just going through the online available reports for like how the market have groans or the past few years, for example, some I think report showed that the number of players like in general for gamers have been rising very rapidly in the recent years and expect to reach growth of more than 300,000,000 players.

00:04:20.790 --> 00:04:24.310

ANH QUAN HUA

So in 2024, I think.

00:04:24.070 --> 00:04:25.060

WILLIAM HEBBLEWHITE

OK. Yep.

00:04:25.020 --> 00:04:27.350

ANH QUAN HUA

Yeah, and and some of those stats like there, but.

00:04:28.320 --> 00:04:39.860

ANH QUAN HUA

Uh, I was wondering if, uh, do you have any specific requirements for the mechanic? The report for the marketability of the gaming sales analysis?

00:04:41.280 --> 00:04:43.590

WILLIAM HEBBLEWHITE

So I can.

00:04:45.980 --> 00:04:48.140

WILLIAM HEBBLEWHITE

Let me see if I have it available to me.

00:04:49.240 --> 00:04:52.540

WILLIAM HEBBLEWHITE

The the gaming team is working on.

00:04:53.550 --> 00:04:54.310

WILLIAM HEBBLEWHITE

Uhm.

00:04:59.260 --> 00:05:01.480

WILLIAM HEBBLEWHITE

Several options.

00:05:03.000 --> 00:05:03.780

WILLIAM HEBBLEWHITE

Uhm.

00:05:05.770 --> 00:05:08.660

WILLIAM HEBBLEWHITE

I think looking at both.

00:05:12.010 --> 00:05:20.940

WILLIAM HEBBLEWHITE

So basically, fitness or exercise games that include either of VR element or a mobile app element.

00:05:21.770 --> 00:05:29.410

WILLIAM HEBBLEWHITE

Is probably what we're looking at, so I guess there's two things to look at in in in that scenario is.

00:05:31.480 --> 00:05:39.070

WILLIAM HEBBLEWHITE

How well do those games do or those sort of systems do compared to other gaming things?

00:05:39.470 --> 00:05:39.960

ANH QUAN HUA

Right, right.

00:05:40.290 --> 00:05:47.690

WILLIAM HEBBLEWHITE

And how how sort of what is the marketability of like mobile apps in VR in general at the moment, yeah.

00:05:47.230 --> 00:06:12.400

ANH QUAN HUA

Yeah, because yeah, definitely. From the stats I've seen in mobile ad is definitely the biggest gaming market right now, even bigger than console and PC combined. And but it's very much an untapped market for fitness game because there hasn't been any like meaningful implication of fitness game or apps on mobile devices. So yeah, that's something that we could possibly be or.

00:05:53.940 --> 00:05:54.290

WILLIAM HEBBLEWHITE

Yep.

00:06:12.650 --> 00:06:17.800

ANH QUAN HUA

Selling point to develop fitness game or app on that regards.

00:06:19.490 --> 00:06:21.440

WILLIAM HEBBLEWHITE

OK, that that sounds good.

00:06:20.490 --> 00:06:20.810

ANH QUAN HUA

Yep.

00:06:22.210 --> 00:06:22.810

WILLIAM HEBBLEWHITE

Uhm.

00:06:23.880 --> 00:06:25.680

WILLIAM HEBBLEWHITE

So yeah, that that sounds really good.

00:06:26.430 --> 00:06:27.190

WILLIAM HEBBLEWHITE

Uh.

00:06:29.550 --> 00:06:45.320

WILLIAM HEBBLEWHITE

Why don't you? Yeah. Can we can have a discussion next week if you, uh, and any team is happy to reach out to me if you're sort of wanting more specific questions to ask. But I think looking at the mobile and VR game and.

00:06:46.670 --> 00:06:53.090

WILLIAM HEBBLEWHITE

Sort of their marketability and then I can pass that onto the the game devs as well as the sort of.

00:06:54.670 --> 00:06:59.550

WILLIAM HEBBLEWHITE

Design teams to have a look at as well to see if they can add anything.

00:06:57.740 --> 00:06:58.030

ANH QUAN HUA

Right.

00:07:02.750 --> 00:07:10.710

WILLIAM HEBBLEWHITE

Did the the other side of your team have anything to contribute? What? So what are these sort of graphs or analysis you guys have been?

00:07:10.420 --> 00:07:17.140

ANH QUAN HUA

Yeah, that part will be in other team members. So if they would like to, they could share some of their findings.

00:07:14.050 --> 00:07:14.370

WILLIAM HEBBLEWHITE

Yep.

00:07:20.390 --> 00:07:23.380

WILLIAM HEBBLEWHITE

Yeah. Does anyone want to sort of jump in and do that?

00:07:34.500 --> 00:07:38.940

WILLIAM HEBBLEWHITE

You should remember to upload any documentation to the.

00:07:39.840 --> 00:07:40.940

WILLIAM HEBBLEWHITE

Files in.

00:07:41.540 --> 00:07:42.020

WILLIAM HEBBLEWHITE

Uhm.

00:07:43.490 --> 00:07:49.120

WILLIAM HEBBLEWHITE

Just like so, if you'd Norman is going to present on it now, and you should be presenting on your stuff each week.

00:07:49.840 --> 00:07:50.440

WILLIAM HEBBLEWHITE

Uhm.

00:07:51.800 --> 00:07:57.260

WILLIAM HEBBLEWHITE

You need to upload it to the files so I can have a look at it and other team members can have a look at it.

00:07:58.260 --> 00:07:58.610

ANH QUAN HUA

Oh yeah.

00:07:58.550 --> 00:07:58.760

WILLIAM HEBBLEWHITE

Yeah.

00:07:59.020 --> 00:08:04.480

ANH QUAN HUA

They share some fibers for it, like in our private group chat. So after the draft.

00:08:04.530 --> 00:08:18.280

ANH QUAN HUA

Uh, they practically for, but I think it's not worth sharing to the teams channel, the official team journal at the moment. So I will working on finalizing it, but other team ended up showed that they have been working on the data set itself.

00:08:11.410 --> 00:08:11.760

WILLIAM HEBBLEWHITE

OK.

00:08:14.060 --> 00:08:14.440

WILLIAM HEBBLEWHITE

Cool.

00:08:17.020 --> 00:08:17.340

WILLIAM HEBBLEWHITE

Yeah.

00:08:18.430 --> 00:08:20.190

WILLIAM HEBBLEWHITE

I got it. You gonna share your screen?

00:08:21.040 --> 00:08:50.910

GOURI NANDAN REDDY GANGAVARAM

So yeah, just a quick click. Uh, look, I'm still upskilling in this. So like I'm putting in hours to upskill myself in Python And doing this sort of graphs and stuff. But what I did this past week was like clean this clean this 2019 data set and sort of like what we are looking for sports general as of now like we can always look for other generous as well but for now I like use this sports data set to like segregate up on like five years like.

00:08:51.030 --> 00:09:06.220

GOURI NANDAN REDDY GANGAVARAM

How old are gaming sales are every year so to so that we can identify some interesting patterns and see what happened that year that boosted this sales for sports category, racing category, something like that so.



00:09:03.220 --> 00:09:03.560

WILLIAM HEBBLEWHITE

Yep.

00:09:06.630 --> 00:09:30.750

GOURI NANDAN REDDY GANGAVARAM

Uh, so I I also come put out a graph saying that part of the total number of sales happened for some particular journalist. I just compared sports and racing in this scenario, but it can be a lot more than that obviously. So yeah, still upskilling myself. And so yeah, uh unlink also like put out some visualizations here showing like different.

00:09:23.740 --> 00:09:24.190

WILLIAM HEBBLEWHITE

Brilliant.

00:09:30.800 --> 00:09:31.200

GOURI NANDAN REDDY GANGAVARAM

Yeah.

00:09:32.250 --> 00:09:50.660

GOURI NANDAN REDDY GANGAVARAM

Global sales for like different platforms available here and what are the regional sales for EU, Japan, any and stuff like that. So there are lot of graphs that we have been doing but we are still trying to identify more interesting patterns over the next course of next week as well. Yeah.

00:09:36.480 --> 00:09:36.850

WILLIAM HEBBLEWHITE

Uh-huh.

00:09:48.350 --> 00:09:48.720

WILLIAM HEBBLEWHITE

Yeah.

00:09:50.430 --> 00:09:55.780

WILLIAM HEBBLEWHITE

So once again, I think this is really good guys. Once again looking at.

00:09:56.500 --> 00:09:57.060

WILLIAM HEBBLEWHITE

Uhm.

00:09:59.500 --> 00:10:11.650

WILLIAM HEBBLEWHITE

I think I think one way to go about your guys stuff is continue with this this sort of basic analysis, but also maybe get in touch with or maybe I can do that.

00:10:12.070 --> 00:10:12.660

WILLIAM HEBBLEWHITE

Uhm.

00:10:13.580 --> 00:10:24.600

WILLIAM HEBBLEWHITE

Get in touch. I'll. I'll do this. Like I'll get in touch with the Via the game builders and ask what exactly type of the types of games they're building.

00:10:26.040 --> 00:10:32.990

WILLIAM HEBBLEWHITE

And maybe we can run some analysis on how those types of games are tracking in the market.

00:10:34.120 --> 00:10:34.740

WILLIAM HEBBLEWHITE

Uhm.

00:10:35.810 --> 00:10:37.390

WILLIAM HEBBLEWHITE

So I know one of the.

00:10:38.270 --> 00:10:40.510

WILLIAM HEBBLEWHITE

One of the things is a.

00:10:42.190 --> 00:10:42.890

WILLIAM HEBBLEWHITE

Uh.

00:10:44.440 --> 00:10:52.310

WILLIAM HEBBLEWHITE

VR3D IoT sort of game using exercise bicycles or treadmills.

00:10:52.970 --> 00:10:56.190

WILLIAM HEBBLEWHITE

Uh, sort of like a competitive exercise game.

00:10:56.890 --> 00:10:59.850

WILLIAM HEBBLEWHITE

Another one is like a mobile app game.

00:11:00.710 --> 00:11:01.400

WILLIAM HEBBLEWHITE

Uhm.

00:11:02.050 --> 00:11:02.550

WILLIAM HEBBLEWHITE

Dot.

00:11:03.960 --> 00:11:07.880

WILLIAM HEBBLEWHITE

Which, uh? How I understand it or how their team lead?

00:11:09.490 --> 00:11:12.890

WILLIAM HEBBLEWHITE

Explained it to me was you get sent a.

00:11:13.620 --> 00:11:27.200

WILLIAM HEBBLEWHITE

A drawing or an image of something and you have to recreate that image in your exercise in your

daily running exercise. Something like that, similar to like Pokémon Go, I guess, like trying to interact with the real world.

00:11:28.230 --> 00:11:39.600

WILLIAM HEBBLEWHITE

And the third one was this giant open world simulator, which would include like exercise and and well being sort of activities in in those sorts of things.

00:11:40.580 --> 00:11:52.280

WILLIAM HEBBLEWHITE

So I guess I guess what you guys could do after this initial analysis is become more specific in the types of games. So sports and racing games are still quite broad categories.

00:11:53.130 --> 00:11:57.820

WILLIAM HEBBLEWHITE

It includes a lot of different stuff. Start looking, as I mentioned at.

00:11:58.810 --> 00:12:00.860

WILLIAM HEBBLEWHITE

Sports games using.

00:12:01.680 --> 00:12:04.930

WILLIAM HEBBLEWHITE

Our VR or IoT sensors.

00:12:05.630 --> 00:12:06.210

WILLIAM HEBBLEWHITE

Uhm.

00:12:07.460 --> 00:12:08.260

WILLIAM HEBBLEWHITE

Mobile.

00:12:08.900 --> 00:12:11.460

WILLIAM HEBBLEWHITE

Apps regarding exercise.

00:12:12.090 --> 00:12:14.950

WILLIAM HEBBLEWHITE

And just general.

00:12:15.680 --> 00:12:22.700

WILLIAM HEBBLEWHITE

Simulation games that may be related to exercise. I think that's your next step. Does that make sense?

00:12:25.820 --> 00:12:30.410

ANH QUAN HUA

Got it. And we are going to have a meeting later on about this, so yeah.

00:12:30.760 --> 00:12:31.110

WILLIAM HEBBLEWHITE

Yeah.

00:12:31.890 --> 00:12:36.180

WILLIAM HEBBLEWHITE

Excellent. Cool. But yeah, I can finish your current analysis first.

00:12:36.710 --> 00:12:47.610

WILLIAM HEBBLEWHITE

Uh, and if possible, upload that to the data science team stuff so I can show the directors what you guys have been doing and they'll and they'll be super impressed and yeah, OK.

00:12:44.230 --> 00:12:44.740

ANH QUAN HUA

Right.

00:12:46.330 --> 00:12:46.880

ANH QUAN HUA

Yep.

00:12:47.660 --> 00:12:49.530

WILLIAM HEBBLEWHITE

Uh, Vinay, you can.

00:12:52.470 --> 00:12:53.920

WILLIAM HEBBLEWHITE

So hand back to Bennett.

00:12:53.530 --> 00:12:53.870

VINAY RATTA

OK.

00:12:55.100 --> 00:13:24.030

VINAY RATTA

Hi, guys. Hi William. So can you guys see my screen now? Yeah, yeah. So, uh as a GAURI also invested her time this week doing some upscaling in Python. I did the same. So my area was like creating random values for our data set, right? So it was like it. It's not that tough of a task, but once I get to know like what team prototype is up to.

00:12:59.340 --> 00:13:00.750

WILLIAM HEBBLEWHITE

I can see the screen, yeah.

00:13:24.330 --> 00:13:53.970

VINAY RATTA

According to what kind of of art attributes we will be needing, I think it just it's gonna make up. I'm gonna take lead on from that onwards. So from from this this week, I just like kind of did my research on how to use the research. So this is like very normal as you can see just like you know you can create any. Yeah, yeah. So in the next one. So you can also set your limits let's say.

00:13:28.830 --> 00:13:29.150

WILLIAM HEBBLEWHITE

Yep.

00:13:46.690 --> 00:13:46.950

WILLIAM HEBBLEWHITE

Yeah.

00:13:47.600 --> 00:13:49.040

WILLIAM HEBBLEWHITE

Yeah. Import random, yeah.

00:13:54.450 --> 00:13:57.380

VINAY RATTA

Uh, as William shared with me that ECG thingy.

00:13:57.990 --> 00:14:27.650

VINAY RATTA

An ECG? I wasn't like, I'm not that sure. What kind of data it represents, but we can also use that one like producing ECG waves and we can limit our values like up to you know what could be the upper or lower it could be and next one it was year end data like you know we if we want to keep a record of you know when this data was being generated we can also do that like randomly we can either randomly create the ER and data values or we can.

00:14:14.790 --> 00:14:15.430

WILLIAM HEBBLEWHITE

Yeah, that's good.

00:14:28.130 --> 00:14:59.160

VINAY RATTA

You know, sort of maybe get the uh live dot or something and in the next step it was, uh creating random names like most of the Atlas would not like to, you know, reveal their privacy. So it be it be very good if we just randomly you know create random names so then and next was a I did a little bit of like let's like testing on BMI like creating random values BMI of 50 athletes if they have entered some you know.

00:14:57.360 --> 00:14:57.750

WILLIAM HEBBLEWHITE

Uh-huh.

00:14:59.300 --> 00:15:03.330

VINAY RATTA

A new uh sent at Fleet Center and yeah.

00:15:02.120 --> 00:15:06.580

WILLIAM HEBBLEWHITE

Yeah, that's that's that's the sort of stuff I think we need to really look at.

00:15:04.310 --> 00:15:09.290

VINAY RATTA

Yeah. So here. Yeah. So here it it's like they have created.

00:15:09.980 --> 00:15:26.970

VINAY RATTA

Uh, random values of BMI is uniformly, and we can sort of analyze the data like saying oh, this

athlete is underwear. This is like, you know, perfect or this is overweight kind of thing. And I think that's all for from my side.

00:15:12.220 --> 00:15:12.520

WILLIAM HEBBLEWHITE

Yep.

00:15:28.040 --> 00:15:34.310

WILLIAM HEBBLEWHITE

That looks really good. So when uh, I think what you will want to sort of.

00:15:35.190 --> 00:15:36.500

WILLIAM HEBBLEWHITE

Think about.

00:15:37.150 --> 00:15:47.160

WILLIAM HEBBLEWHITE

It is and and this will be easier when we get hold of that data that shvets talking about is to look at those solar parameters and also work closely with.

00:15:45.720 --> 00:15:46.150

VINAY RATTA

Yep.

00:15:49.100 --> 00:16:05.150

WILLIAM HEBBLEWHITE

The algorithm team in the games team about the sort of parameters will be looking at, but that's really good. I'm I'm really impressed with this with these upskilling guys. It's really important as part of your capstone to be able to upskill stuff.

00:15:55.490 --> 00:15:55.880

VINAY RATTA

Yep.

00:16:06.520 --> 00:16:13.850

WILLIAM HEBBLEWHITE

I've I've made A and and it be good if you guys can fill this out in in the UM.

00:16:15.060 --> 00:16:18.520

WILLIAM HEBBLEWHITE

Data science and analysis team chat. If you go to team information.

00:16:19.870 --> 00:16:21.230

WILLIAM HEBBLEWHITE

There's a tab.

00:16:21.980 --> 00:16:27.000

WILLIAM HEBBLEWHITE

It's the, it's the project teams tab, but then there's a tab next to it called experience.

00:16:27.810 --> 00:16:28.350

WILLIAM HEBBLEWHITE

Uhm.

00:16:29.090 --> 00:16:30.050

WILLIAM HEBBLEWHITE

Filling that out.

00:16:30.700 --> 00:16:39.350

WILLIAM HEBBLEWHITE

Will be really useful for everyone, so that just basically put your name, put whether you're a gene junior or senior student.

00:16:40.050 --> 00:16:40.590

WILLIAM HEBBLEWHITE

Uhm.

00:16:41.450 --> 00:16:53.610

WILLIAM HEBBLEWHITE

And indicate whether you're skilled in a certain area or that or and sorry indicate whether you're skilled in a certain area and indicate which areas or upskilling in.

00:16:54.580 --> 00:16:56.250

WILLIAM HEBBLEWHITE

And we can always add more.

00:16:56.300 --> 00:17:06.050

WILLIAM HEBBLEWHITE

Cool uh tabs. If we need to, but you should at all have a look at that. It doesn't need to be done immediately, but you know over the weekend it'll take you 5 minutes. That sort of thing.

00:17:07.040 --> 00:17:10.360

WILLIAM HEBBLEWHITE

Cool. Alright let's UM.

00:17:11.370 --> 00:17:14.290

WILLIAM HEBBLEWHITE

Chris Gamblin, e.g., how's that going?

00:17:16.160 --> 00:17:34.810

HYUN DONG KIM

Hi everyone, I'm actually hadn't been too well in this week, so I've been but I've been just upskilling what game is about. Like for instance, I've been looking at the like how to write up the articles and stuff like that so quickly. I was just catching up with my previous learning materials and stuff like that.

00:17:30.360 --> 00:17:30.740

WILLIAM HEBBLEWHITE

Yep.

00:17:35.380 --> 00:17:37.670

WILLIAM HEBBLEWHITE

Yeah. Do you have?

00:17:39.610 --> 00:17:42.480

HYUN DONG KIM

I can post some links what I've been looking at.

00:17:42.070 --> 00:17:49.800

WILLIAM HEBBLEWHITE

Yeah. Yeah, that'd be good. Just just make a note of what you've been researching, right. Did you or have you done the subject?

00:17:52.080 --> 00:17:53.290

WILLIAM HEBBLEWHITE

What's it called?

00:17:54.120 --> 00:17:56.200

HYUN DONG KIM

SIP 4 something car member.

00:17:57.200 --> 00:17:59.030

WILLIAM HEBBLEWHITE

Yes, I yeah, 741.

00:17:59.740 --> 00:18:00.350

HYUN DONG KIM

Yeah, yeah.

00:18:00.930 --> 00:18:05.550

WILLIAM HEBBLEWHITE

Yeah. So there's a book. There's a book that's recommended in that called.

00:18:08.360 --> 00:18:09.560

WILLIAM HEBBLEWHITE

If I can find.

00:18:12.510 --> 00:18:13.610

WILLIAM HEBBLEWHITE

What it was called.

00:18:14.230 --> 00:18:15.860

WILLIAM HEBBLEWHITE

I think it's just code statistical.

00:18:17.880 --> 00:18:25.290

WILLIAM HEBBLEWHITE

Something I think I have a copy of it somewhere. Oh, but that talks a lot about games. Let me find out where the book is called.

00:18:25.960 --> 00:18:26.710

WILLIAM HEBBLEWHITE

Uh.

00:18:28.820 --> 00:18:33.750

WILLIAM HEBBLEWHITE

And then I can link it to you and you should be able to find a free PDF version through.

00:18:34.620 --> 00:18:35.240

WILLIAM HEBBLEWHITE

Uhm.



00:18:37.000 --> 00:18:37.540

WILLIAM HEBBLEWHITE

Deakin.

00:18:38.250 --> 00:18:39.190

HYUN DONG KIM

OK, cool.

00:18:39.820 --> 00:18:41.160

WILLIAM HEBBLEWHITE

Let me just.

00:18:43.100 --> 00:18:48.010

HYUN DONG KIM

I remember just like running feud codes, but that was about it, so I just wanted to learn more about it.

00:18:48.190 --> 00:18:54.230

WILLIAM HEBBLEWHITE

Yeah. No, I understand. And games have really complex right there. They they quite complex systems.

00:18:52.260 --> 00:18:52.720

HYUN DONG KIM

Uh.

00:18:54.990 --> 00:18:55.700

HYUN DONG KIM

Yes. Yeah.

00:18:55.910 --> 00:19:04.640

WILLIAM HEBBLEWHITE

So even if we have one, even if we have one person who's really good on that stuff and can provide us with the documentation.

00:19:05.980 --> 00:19:08.950

WILLIAM HEBBLEWHITE

That would be really good. But uh, jacks working with you, right?

00:19:10.150 --> 00:19:10.940

HYUN DONG KIM

Yes.

00:19:11.440 --> 00:19:13.390

WILLIAM HEBBLEWHITE

Have you been in contact with Jack?

00:19:14.180 --> 00:19:16.050

HYUN DONG KIM

Ah, I did, but I'm.

00:19:17.830 --> 00:19:19.110

HYUN DONG KIM

Yes, I know, I mean.

00:19:19.840 --> 00:19:27.850

HYUN DONG KIM

I've been trying to dispute some work with him, but I haven't. I haven't been getting a response since Wednesday so.

00:19:27.560 --> 00:19:30.270

WILLIAM HEBBLEWHITE

OK, OK. Just keep trying. It's like.

00:19:31.740 --> 00:19:45.020

WILLIAM HEBBLEWHITE

Asynchronous is going to work. Probably best for a lot of us if we're if we're sort of spread across the world. I know myself, chef at end, Andrew can't or meet up at the same time because Andrew's in Europe.

00:19:45.660 --> 00:19:55.580

WILLIAM HEBBLEWHITE

Uh, so Manchester at sort of have the asynchronous it's asynchronously chat with Andrew over the algorithm stuff.

00:19:56.150 --> 00:19:56.710

HYUN DONG KIM

Yep, Yep.

00:19:56.360 --> 00:20:02.260

WILLIAM HEBBLEWHITE

But ah yeah, take it easy if you're feeling unwell, don't worry about it. Those two books are.

00:20:02.950 --> 00:20:13.850

WILLIAM HEBBLEWHITE

Introduction to generalized linear models by Annette Dobson and generalized additive models by Simon. Would they, and they're both for our, so they should help you.

00:20:05.670 --> 00:20:05.990

HYUN DONG KIM

Yep.

00:20:14.710 --> 00:20:15.040

HYUN DONG KIM

OK.

00:20:14.710 --> 00:20:15.120

WILLIAM HEBBLEWHITE

Uh.

00:20:15.810 --> 00:20:24.090

WILLIAM HEBBLEWHITE

And and if you want some upskilling in are just that basic R for data science by we coming grollimund is really good.

00:20:24.760 --> 00:20:24.990

HYUN DONG KIM

Here.

00:20:26.690 --> 00:20:28.500

WILLIAM HEBBLEWHITE

UMER cool.

00:20:28.100 --> 00:20:30.170

HYUN DONG KIM

Don't catch up over the weekend.

00:20:30.400 --> 00:20:37.980

WILLIAM HEBBLEWHITE

Yeah. Don't work too hard, man. Just LATCHAM make sure you'll make sure you're getting your hours in. And then and and sort of doing enough.

00:20:39.950 --> 00:20:40.190

HYUN DONG KIM

Speak.

00:20:40.500 --> 00:20:41.290

WILLIAM HEBBLEWHITE

For yeah.

00:20:42.690 --> 00:20:55.210

WILLIAM HEBBLEWHITE

Alright, uh, Lucy, how's the data storage stuff going? So last we talked, we decided on my SQL as a good starting point. How's that going?

00:20:56.620 --> 00:21:13.430

LUCY MANN

Yep. So are we had a we had a project meeting on Wednesday and discuss like the research conducted so far and what we needed to do next. So we sort of just dished off the responsibility. So we had a bit more of a look at my SQL and then.

00:21:14.030 --> 00:21:35.670

LUCY MANN

And also just another option in Maria DB and then we've done a little bit of research on Mongo DB which is an OS Kia QL open source database, but that the research for that's pretty brief, but we decided we would just do like a pricing features comparison and a pros and cons comparison. So we've uploaded it all.

00:21:22.520 --> 00:21:22.860

WILLIAM HEBBLEWHITE

Yeah.

00:21:25.550 --> 00:21:25.750

WILLIAM HEBBLEWHITE

Right.

00:21:36.060 --> 00:21:41.080

LUCY MANN

Uhm, to the document in the database research folder. So if you you can have a look there.

00:21:41.130 --> 00:21:41.810

LUCY MANN

Uhm.

00:21:43.160 --> 00:21:49.110

LUCY MANN

For the updates, but it still seemed like I it still seems like my SQL will likely be the best option.

00:21:49.710 --> 00:21:50.070

WILLIAM HEBBLEWHITE

Yep.

00:21:50.220 --> 00:21:53.890

LUCY MANN

But yeah, we've just, we've just been conducting additional research and.

00:21:53.480 --> 00:22:18.920

WILLIAM HEBBLEWHITE

That's good. The more research you can do on these, yeah, the more research you can do on these topics. And that goes for all of us. The more research we can do on our topics while we're putting these practical implementations in is good. I have a meeting with the team leaders for IoT and Dev OPS next Monday night where we're going to actually talk about data solutions.

00:21:54.940 --> 00:21:56.070

LUCY MANN

Summarizing our findings.

00:22:20.130 --> 00:22:20.450

LUCY MANN

Yep.

00:22:20.850 --> 00:22:26.720

WILLIAM HEBBLEWHITE

Uh, and their compatibility across our three teams, so I'll use your guys research in that discussion.

00:22:26.420 --> 00:22:26.720

LUCY MANN

Yep.

00:22:27.520 --> 00:22:38.170

LUCY MANN

Love it? Yeah. And we just had. We had a couple of questions regarding the unit. So we're just wondering, like, how do you know how panel presentations are working this trimester?

00:22:38.290 --> 00:22:39.660

WILLIAM HEBBLEWHITE

No, no idea.

00:22:40.280 --> 00:22:44.100

LUCY MANN

Oh good. It's not like I I didn't think anyone really new at this point.

00:22:41.170 --> 00:22:42.260

WILLIAM HEBBLEWHITE

I yeah.

00:22:43.560 --> 00:22:45.170

WILLIAM HEBBLEWHITE

I I don't know how.

00:22:46.330 --> 00:22:53.640

WILLIAM HEBBLEWHITE

I don't. So my guess is people going for HD's are the only ones who have to worry about panel presentations.

00:22:54.310 --> 00:22:54.700

LUCY MANN

Uh-huh.

00:22:54.790 --> 00:22:55.530

WILLIAM HEBBLEWHITE

Uhm.

00:22:57.070 --> 00:23:03.260

WILLIAM HEBBLEWHITE

And that I said, I think probably gonna be lined up independently.

00:23:03.970 --> 00:23:10.290

WILLIAM HEBBLEWHITE

With people who were going for HD's, so it won't be like a team thing like last year.

00:23:11.300 --> 00:23:14.140

WILLIAM HEBBLEWHITE

Last semester, for those who did it last semester.

00:23:11.560 --> 00:23:11.860

LUCY MANN

Yep.

00:23:16.270 --> 00:23:19.880

WILLIAM HEBBLEWHITE

There's a lot of changes, so you would have, I mean in general you would have heard that.

00:23:20.570 --> 00:23:25.530

WILLIAM HEBBLEWHITE

Cohorts are already being redesigned and and that the sort of.

00:23:26.470 --> 00:23:33.400

WILLIAM HEBBLEWHITE

A task for cohorts is being taken out and redesigned to be something more general. So.

00:23:34.090 --> 00:23:42.730

WILLIAM HEBBLEWHITE

That the unit coordinators are basically changing things as they're going with this some this semester so.

00:23:41.070 --> 00:23:41.460

LUCY MANN

Yeah.

00:23:43.360 --> 00:24:07.240

LUCY MANN

That seems to be the case. OK, easy. And then we just have one last question, like a database specific question. We're just wondering like how data scalability going to be working? Are we just putting in one chunk and keeping that or are we adding it like as we go like in variety, I guess it's just weird 'cause, it's all new at the moment. We don't know exactly what we're putting in.

00:23:47.990 --> 00:23:48.380

WILLIAM HEBBLEWHITE

Yep.

00:24:06.110 --> 00:24:12.340

WILLIAM HEBBLEWHITE

We should. Yeah. So. And we don't know how future trimesters are gonna work, so we need to be.

00:24:12.400 --> 00:24:21.640

WILLIAM HEBBLEWHITE

The UM the words like as agnostic towards scalability and data as possible. With the solution we start with.

00:24:22.170 --> 00:24:22.530

LUCY MANN

Yep.

00:24:22.290 --> 00:24:34.110

WILLIAM HEBBLEWHITE

It might be that next semester they they find our solution not viable and change it, but that's not our problem. We just need to try and find an agnostic solution at the moment for what we're doing.

00:24:29.670 --> 00:24:30.000

LUCY MANN

Yep.

00:24:34.790 --> 00:24:35.720

LUCY MANN

Yep, no worries.

00:24:37.210 --> 00:24:40.340

LUCY MANN

Like, what would you like us to look at Nicks?

00:24:40.780 --> 00:24:41.460

LUCY MANN

Uhm.

00:24:42.160 --> 00:24:42.700

WILLIAM HEBBLEWHITE

I think.

00:24:42.240 --> 00:24:45.100

LUCY MANN

In regard like research or upskilling or.

00:24:46.670 --> 00:24:50.340

WILLIAM HEBBLEWHITE

Yeah, I'd I'd like. So let's.

00:24:54.380 --> 00:25:05.380

WILLIAM HEBBLEWHITE

Let me think about that content. Stick with your current research and I'll have a clearer idea of what the data storage team can do after my meeting on Monday.

00:24:56.700 --> 00:24:57.090

LUCY MANN

Uh-huh.

00:24:59.690 --> 00:25:00.010

LUCY MANN

Yep.

00:25:06.080 --> 00:25:07.220

LUCY MANN

Yeah, OK, no worries.

00:25:06.600 --> 00:25:07.110

WILLIAM HEBBLEWHITE

Uhm.

00:25:07.750 --> 00:25:24.270

WILLIAM HEBBLEWHITE

But if you're like, I think obviously if you or your teams not comfortable in SQL upskilling in SQL is probably a good idea and that's a good idea in general, yeah, SQL probably good in general 'cause it's used everywhere in the industry so.

00:25:16.680 --> 00:25:19.300

LUCY MANN

Yeah, I'll definitely need a refresher off, yeah.

00:25:24.880 --> 00:25:27.480

LUCY MANN

Yeah, OK. No worries. Thanks for that, woman.

00:25:28.140 --> 00:25:28.810

WILLIAM HEBBLEWHITE

Alright.

00:25:29.870 --> 00:25:43.030

VINAY RATTA

Hi. Sorry William. I I I'm not sure, apologies if I'm asking it again. I'm not sure that question is covered or not, but are there any specific hours like for credit let's say 100 for distinction 120?

00:25:30.590 --> 00:25:30.910

WILLIAM HEBBLEWHITE

Yep.

00:25:43.310 --> 00:25:53.060

WILLIAM HEBBLEWHITE

So as in in the meeting in the lecture last lecture with Dhananjay, he was saying.

00:25:54.230 --> 00:26:00.610

WILLIAM HEBBLEWHITE

For distinction or higher, you're probably aiming for about 120 hours.

00:26:01.320 --> 00:26:03.280

WILLIAM HEBBLEWHITE

Of work over the semester.

00:26:04.000 --> 00:26:04.300

VINAY RATTA

Yeah.

00:26:04.010 --> 00:26:10.750

WILLIAM HEBBLEWHITE

If you're just looking, so if you're just looking for a pass or credit, it's about 100 hours, but importantly.

00:26:07.940 --> 00:26:08.280

VINAY RATTA

Yep.

00:26:11.760 --> 00:26:31.000

WILLIAM HEBBLEWHITE

Caveat importantly, just working 120 hours is not gonna be enough. It's gonna also look at. They're gonna also look at the quality of the work you're producing, right. And the types of activities you're involved in. So you're if you're just doing 120 hours of research, that's not going to get you a distinction.

00:26:22.950 --> 00:26:23.270

VINAY RATTA

Yep.

00:26:31.750 --> 00:26:32.090

VINAY RATTA

Yep.

00:26:31.820 --> 00:26:32.180

WILLIAM HEBBLEWHITE

Ah.

00:26:33.410 --> 00:27:02.120

WILLIAM HEBBLEWHITE



I like. Unfortunately I have it. Uh, quite a bit easier than you guys because I I have all the leadership stuff to deal with, so my hours get filled up with meetings and discussions with team leaders and that sort of stuff. You guys could sort of and I'm less inclined to have to produce output, but you guys sort of have to produce sort of output, but you're doing that. You're already doing that or the stuff you already done, you claim your hours for it. Important.

00:27:02.460 --> 00:27:03.770

VINAY RATTA

Yeah. Thank you.

00:27:03.240 --> 00:27:03.720

WILLIAM HEBBLEWHITE

Uhm.

00:27:04.380 --> 00:27:06.280

WILLIAM HEBBLEWHITE

And it's a good idea to always just.

00:27:07.080 --> 00:27:11.320

WILLIAM HEBBLEWHITE

If if you're working on something for 45 minutes, push it up to an hour.

00:27:13.670 --> 00:27:15.680

WILLIAM HEBBLEWHITE

Right. Just just do that sort of thing.

00:27:16.070 --> 00:27:18.170

VINAY RATTA

15 minutes wouldn't hurt anymore.

00:27:18.120 --> 00:27:18.930

WILLIAM HEBBLEWHITE

Yeah, yeah.

00:27:19.990 --> 00:27:20.290

VINAY RATTA

Yeah.

00:27:20.020 --> 00:27:22.850

WILLIAM HEBBLEWHITE

1515 minutes wine. Heard anyone?

00:27:23.880 --> 00:27:24.410

WILLIAM HEBBLEWHITE

Uhm.

00:27:24.030 --> 00:27:24.730

VINAY RATTA

Thank you.

00:27:25.100 --> 00:27:30.380

WILLIAM HEBBLEWHITE

Cool. Alright, shall do. You want to talk about the algorithm stuff that we've been working on?

00:27:32.250 --> 00:27:33.720

SHASHVAT JOSHI

Yeah, just share my screen.

00:27:33.740 --> 00:27:39.380

WILLIAM HEBBLEWHITE

Yeah. So it's it's been doing some really good work. I think it's really impressive. I'm excited to show the directors.

00:27:40.030 --> 00:27:40.580

WILLIAM HEBBLEWHITE

Uhm.

00:27:41.660 --> 00:27:45.650

SHASHVAT JOSHI

Hello everyone so this is the first draft for the oxygen algo.

00:27:46.490 --> 00:27:51.650

SHASHVAT JOSHI

And in this research, we are basically going to take the power requirement versus the heart will response.

00:27:52.780 --> 00:28:21.770

SHASHVAT JOSHI

And if you just go down, this is this graph over here. So let's say if I sample if a person is cycling is like initial start and when he spelling there will be some power output which is represented by this black line over here and the red line is the heart wait. So when a person starts peddling at that moment the heart rate is still around 70 to 80 beats per minutes plus like 5 to 6 pedals later the heartbeat starts increasing so that lag will contact calculate which will be.

00:28:21.820 --> 00:28:26.470

SHASHVAT JOSHI

Uh, named as a starter plat and at the same time at the ending when the exercise ends.

00:28:27.510 --> 00:28:39.360

SHASHVAT JOSHI

The power consumption is which is 0, but the hardware is still beating faster. That will be the ending. Lag will be done step down lab. So we gotta utilize and analyze this data to credit on oxygen prediction model.

00:28:40.090 --> 00:28:46.950

SHASHVAT JOSHI

Or this, uh, we're gonna have two constant DC-1 and DC-2, which are the heart rate step up and heart rate step down.

00:28:47.900 --> 00:28:50.060

SHASHVAT JOSHI

So basically the idea is they were running this.

00:28:50.900 --> 00:29:03.090

SHASHVAT JOSHI

So this is our training model that was developed and according to this week and we are able to

satisfy that the Physiology of the heart is working in real time according to the data that we are getting.

00:29:04.560 --> 00:29:35.440

SHASHVAT JOSHI

And one more thing, this data will be not be using a continuous state system approved. It will use a more of a discrete one because the heart heart response is not linear. It's like a nonlinear dynamic property. Because let's say if you're walking it's the beats are constant. But suddenly you start jogging then tibebats become higher like around 72-80. So it's like a nonlinear approach. It's not in a discrete continuous way. So that will be the first approach and this will be the model that will be based on.

00:29:37.260 --> 00:29:46.870

SHASHVAT JOSHI

Going further down or this is the flow chart for the start of the model which we have started and in which we are going to do the predicted heart rate formula.

00:29:47.810 --> 00:29:51.240

SHASHVAT JOSHI

We also going to use that RMSD root mean square value to get the highest.

00:29:51.300 --> 00:29:51.720

SHASHVAT JOSHI

Uh.

00:29:52.600 --> 00:29:56.230

SHASHVAT JOSHI

The minimize the lowest critical error and get the highest predictable output.

00:29:57.060 --> 00:30:00.470

SHASHVAT JOSHI

And this is just an explanation for the other part.

00:30:02.230 --> 00:30:17.250

SHASHVAT JOSHI

The problem in this one is the confidence interval that was calculated for two models. Confidence interval is like when we plot a graph, we gotta take the two most start point and the extreme point and in the area of that region we going to finalize that data.

00:30:18.180 --> 00:30:46.450

SHASHVAT JOSHI

And for that we use a Gaussian distribution by causing distribution I mean if you can see this black color graph over here we have this conical shape. This is the Gaussian surface. So the Model S this surface is the more predicted, the more accurate and predictable data. Is that what I'm trying to say and this is working best for the athlete one or the general people, we're going to have to optimize the algorithm by using. So that's for the research has been done till now.

00:30:47.150 --> 00:30:53.330

SHASHVAT JOSHI

And this is the result that we have compared with an established model that is available online for the chronic training load.

00:30:54.650 --> 00:31:12.110

SHASHVAT JOSHI

This populator represents the older people, which is around 50 years of age with their threshold and the red one is for the younger generation around 20 years old and these two models are PC1 and PC-2. TC One is the startup heart, like the heart startup, and DC 2 is the ending of the exercise form.

00:31:13.830 --> 00:31:18.760

SHASHVAT JOSHI

Yep, that's it. Conclusion is, we're gonna have an open source personalized.

00:31:19.410 --> 00:31:20.190

SHASHVAT JOSHI

Fitness model.

00:31:20.360 --> 00:31:21.120

SHASHVAT JOSHI

I could be like tomorrow.

00:31:22.630 --> 00:31:24.900

SHASHVAT JOSHI

Second part for the coding one.

00:31:27.270 --> 00:31:42.870

SHASHVAT JOSHI

This was the work that I did this week. We did some unified and by what it on the two data models, which is a shun added for each of subjects port while the incremental we Wingate and step up and step down and we also give some missing data and outliers frequently.

00:31:44.230 --> 00:31:45.620

SHASHVAT JOSHI

Basically we have done till here.

00:31:46.600 --> 00:31:50.520

SHASHVAT JOSHI

And next week plan is to complete the data analysis.

00:31:52.940 --> 00:31:53.340

SHASHVAT JOSHI

Yep.

00:31:57.200 --> 00:31:58.260

SHASHVAT JOSHI

Yeah, I know, William.

00:31:58.310 --> 00:32:00.340

SHASHVAT JOSHI

Or you can also share your algorithm right here.

00:31:59.950 --> 00:32:30.380

WILLIAM HEBBLEWHITE

Uh, yeah, I'll share my stuff in a moment, but I just wanna make a general comment about this sort of document is going to be really useful for next trimester teams as well as like the directors and

team leaders. So if each of your teams can produce a document like that, explaining your projects, explaining how they fit into.

00:32:30.720 --> 00:33:01.670

WILLIAM HEBBLEWHITE

What redback operations is doing explaining sort of some of the more intricacies, some of the more detailed aspects, so if it's in data storage or explaining pricing why you've chosen to go with my SQL, what's going to be needed for people working with my SQL? That sort of thing. Data engineering. You're explaining your processes, you're explaining what is required, what skills, what sort of techniques are you're introducing that sort of thing? And the same with this sort of just the.

00:33:02.040 --> 00:33:08.190

WILLIAM HEBBLEWHITE

Sales analysis people had what are you using? What techniques are you sort of focusing on?

00:33:09.140 --> 00:33:15.470

WILLIAM HEBBLEWHITE

Why are you doing? Why? What sort of questions you're asking that that sort of thing is?

00:33:16.070 --> 00:33:23.790

WILLIAM HEBBLEWHITE

Gold to any team, any new team coming in to work on a project. So if we can have that sort of documentation.

00:33:24.270 --> 00:33:26.370

WILLIAM HEBBLEWHITE

Uh. Ready and and.

00:33:27.500 --> 00:33:31.880

WILLIAM HEBBLEWHITE

To go it just something to work on Azure, working on your more technical stuff, OK.

00:33:33.030 --> 00:33:35.360

WILLIAM HEBBLEWHITE

I'll share my stuff. My stuff is very.

00:33:35.980 --> 00:33:43.340

WILLIAM HEBBLEWHITE

UMER, still still very early stages, but what I'm looking at is.

00:33:45.050 --> 00:33:47.200

WILLIAM HEBBLEWHITE

A time series regression.

00:33:48.130 --> 00:33:50.460

WILLIAM HEBBLEWHITE

Uhm, so let me share my screen.

00:33:52.860 --> 00:33:53.540

WILLIAM HEBBLEWHITE

Window.

00:33:59.700 --> 00:34:00.310

WILLIAM HEBBLEWHITE

Hopefully.

00:34:02.580 --> 00:34:06.310

WILLIAM HEBBLEWHITE

So my my my I'm looking at the question of.

00:34:09.300 --> 00:34:14.750

WILLIAM HEBBLEWHITE

So with the sort of grand a picture of redback operations and the the what we're trying to do.

00:34:15.550 --> 00:34:16.090

WILLIAM HEBBLEWHITE

Uhm.

00:34:17.460 --> 00:34:19.800

WILLIAM HEBBLEWHITE

One of the one of the things we really want to.

00:34:21.360 --> 00:34:26.660

WILLIAM HEBBLEWHITE

Be able to provide our users in in the very few future is real time feedback.

00:34:27.380 --> 00:34:31.450

WILLIAM HEBBLEWHITE

Based on a user's key performance indicators.

00:34:32.220 --> 00:34:42.010

WILLIAM HEBBLEWHITE

And this is something related to the games in the IE IG, so I'm sure me and Chris will have a lot of crossover here, except I'm not going to be using games I'm looking at.

00:34:43.640 --> 00:34:51.310

WILLIAM HEBBLEWHITE

Time series regression and potentially some time series deep learning regression algorithms.

00:34:52.680 --> 00:35:13.630

WILLIAM HEBBLEWHITE

The key question I'm looking at is, given a future race event and a database of historical races of a rider, can we predict the loss or gain of time for this rider? So if we think about it in terms of the things we're producing, say a user is has a month worth of racing output.

00:35:14.820 --> 00:35:35.720

WILLIAM HEBBLEWHITE

Times that they have and they want to know whether their sort of in the future, they're going to have sort of a gain or loss compared to other people in the game. This is what this sort of algorithm that attempts to do this is based on some work done by Liu ET al in 2020.

00:35:36.530 --> 00:35:38.270

WILLIAM HEBBLEWHITE

Looking particularly at.

00:35:40.290 --> 00:35:48.290

WILLIAM HEBBLEWHITE

Professional races, so I want to see if we can. I can take that the this sort of algorithm they developed and use it for sort of just basic.

00:35:50.490 --> 00:36:03.380

WILLIAM HEBBLEWHITE

Basic stuff. So uh time series regression in time series regression. We are primarily interested in learning how to aggregate a time series into a single number, whether there's a win or loss of time.

00:36:05.490 --> 00:36:13.580

WILLIAM HEBBLEWHITE

Do you go down? Did you go down with time or will you go with downward time or will you go out with time and there's a lot of stuff so.

00:36:14.490 --> 00:36:20.830

WILLIAM HEBBLEWHITE

At the moment I've started looking into a web scraping to scrape some.

00:36:22.220 --> 00:36:27.500

WILLIAM HEBBLEWHITE

Data from procycle websites that that host this sort of thing.

00:36:28.100 --> 00:36:30.760

WILLIAM HEBBLEWHITE

I'm going to be focusing on just one rider.

00:36:31.940 --> 00:36:37.180

WILLIAM HEBBLEWHITE

And this will be my basically testing data to see whether the algorithm is beneficial, not.

00:36:38.040 --> 00:36:45.520

WILLIAM HEBBLEWHITE

UMER data cleaning and preprocessing. Pressing preprocessing of course, that will have to wait until I get all the data from the.

00:36:47.290 --> 00:36:52.160

WILLIAM HEBBLEWHITE

Looking at what my target variable is and certain feature engineering issues.

00:36:53.150 --> 00:36:53.730

WILLIAM HEBBLEWHITE

Uhm.

00:36:54.430 --> 00:36:56.470

WILLIAM HEBBLEWHITE

So this is sort of the.

00:36:57.390 --> 00:36:58.820

WILLIAM HEBBLEWHITE

Potential timeline.

00:36:59.230 --> 00:37:01.620

WILLIAM HEBBLEWHITE

Uh. Build a web scraper.

00:37:02.370 --> 00:37:04.960

WILLIAM HEBBLEWHITE

Actually have a a more sophisticated.

00:37:07.160 --> 00:37:07.950

WILLIAM HEBBLEWHITE

Timeline.

00:37:08.730 --> 00:37:09.770

WILLIAM HEBBLEWHITE

Or road map.

00:37:11.000 --> 00:37:14.920

WILLIAM HEBBLEWHITE

So this is my road map that I'm gonna share the directors.

00:37:16.430 --> 00:37:29.380

WILLIAM HEBBLEWHITE

It would be really good if your teams can develop Rd maps as well. They don't have to be intricate, they just need to show me what you're planning to do over the next few weeks or over the next semester trimester.

00:37:30.220 --> 00:37:47.930

WILLIAM HEBBLEWHITE

So week two, I sort of did research reading academic articles, looking at some time series analysis tutorials and web favoring tutorials between now and week six, I'll be sort of building web scraping the web scraping project and hopefully getting into data preprocessing.

00:37:49.070 --> 00:38:08.130

WILLIAM HEBBLEWHITE

Week 7 to 9 I hopefully see an algorithm by week nine or will hopefully have a algorithm prototype that's ready to be tested and evaluated, and then once that's the case, I'll be talking with once again IoT teams and the game world teams to see ask how these sort of.

00:38:09.350 --> 00:38:21.490

WILLIAM HEBBLEWHITE

Algorithms can be implemented and what sort of how do we want to use our algorithms, right? So do we want our algorithms to be in a dashboard where users can go?

00:38:22.340 --> 00:38:42.330

WILLIAM HEBBLEWHITE

After their event and check things out, do they want? Do we want real time feedback and how does that work with our algorithms, especially sort of with the year GSR, Jesus sort of that sort of thing. Can they provide real time feedback through people's smart devices and what does that what would that require of us?

00:38:43.540 --> 00:38:54.130

WILLIAM HEBBLEWHITE



It's like those are sort of harder questions to answer, but I'm at the moment I'm just sort of in this web scraping and data pre processing processing project at the moment.

00:38:56.090 --> 00:39:00.180

WILLIAM HEBBLEWHITE

So, but you should, yeah. Each team should develop a road map for.

00:39:02.050 --> 00:39:04.500

WILLIAM HEBBLEWHITE

And like a not don't make it too.

00:39:06.600 --> 00:39:24.130

WILLIAM HEBBLEWHITE

Don't push ourselves to try and achieve like all these outputs. Just choose stuff that you think is accomplishable, giving your skill set and your teams skill set within the trimester and sort of have. This is what we want to accomplish. This is what we think we're going to accomplish.

00:39:24.650 --> 00:39:30.430

WILLIAM HEBBLEWHITE

And and and sort of work on those sorts of things that would be if you could put those into the?

00:39:31.180 --> 00:39:34.830

WILLIAM HEBBLEWHITE

Data Science Channel by next week, that would be great.

00:39:35.890 --> 00:39:38.890

WILLIAM HEBBLEWHITE

Does anyone have any questions about anything?

00:39:41.350 --> 00:39:52.360

ANH LINH LE

Sorry, I have a question about the game data sets out this video game that access is a form by yourself or just form the university gave you.

00:39:54.110 --> 00:39:55.850

WILLIAM HEBBLEWHITE

UH, which datasets? Sorry.

00:39:56.230 --> 00:39:57.670

ANH LINH LE

Video game data says.

00:39:58.550 --> 00:40:06.920

ANH QUAN HUA

Now the video game that I said is found by me on K Go basically and it scraped. Yeah. Yeah. It's on keigo. Yep. It's on cable.

00:40:03.380 --> 00:40:05.540

WILLIAM HEBBLEWHITE

It's a cake. Oh, it's probably a Kegel data set.

00:40:08.290 --> 00:40:09.020

ANH LINH LE

Ah yeah.

00:40:09.280 --> 00:40:16.240

WILLIAM HEBBLEWHITE

The university hasn't supplied us with any data sets, so the stuff where the software getting is all off our own back.

00:40:16.520 --> 00:40:30.700

WILLIAM HEBBLEWHITE

Uh. And so that's why, at least with sort of the more the algorithm stuff, it's very piece meal at the moment and until we get some more data, we can't really test our algorithms really comprehensively.

00:40:31.420 --> 00:40:43.190

WILLIAM HEBBLEWHITE

Come with the game sale stuff. I think those might be like Kegel does that updates that stuff pretty regularly like good datasets on that, but there should also be like.

00:40:43.840 --> 00:40:45.190

WILLIAM HEBBLEWHITE

Sales da da.

00:40:46.120 --> 00:40:47.340

WILLIAM HEBBLEWHITE

On video games.

00:40:48.000 --> 00:40:50.010

WILLIAM HEBBLEWHITE

Available fairly easily.

00:40:51.560 --> 00:40:53.950

WILLIAM HEBBLEWHITE

So if you need more data, just go look for it.

00:40:55.420 --> 00:40:56.780

WILLIAM HEBBLEWHITE

Is that is the answer.

00:40:57.270 --> 00:40:58.680

ANH LINH LE

OK, OK. OK. Thank you.

00:41:00.460 --> 00:41:15.650

WILLIAM HEBBLEWHITE

Any other questions like that? Stuff? That stuff is really, yeah, really important. But I'm looking for datasets, is looking for data, is goes into your hours. Right. Treat that as like work that you're that's part of your work.

00:41:16.690 --> 00:41:30.090

WILLIAM HEBBLEWHITE

Work is not just the technical stuff, it's the meetings. It's the discussions, the asynchronous discussions over chat. It's sort of attending lectures. This is all part of your learning in the capstone.

00:41:31.950 --> 00:41:36.830

WILLIAM HEBBLEWHITE

So if it takes you a couple of hours to look for a data set, so be it takes you a couple of hours to look for a data set.

00:41:37.600 --> 00:41:39.250

ANH LINH LE

So if I have one more question.

00:41:39.890 --> 00:41:43.580

ANH LINH LE

I can analyze the other data set that's fine or not.

00:41:44.560 --> 00:41:48.860

ANH LINH LE

Because the video game that says it's some has some limitation is so hard to.

00:41:50.730 --> 00:41:57.780

ANH LINH LE

So in light of a specific which one belongs to VR or something like this because.

00:41:56.100 --> 00:41:56.510

WILLIAM HEBBLEWHITE

Uh-huh.

00:41:58.490 --> 00:42:00.060

ANH LINH LE

It's not enough data.

00:42:00.810 --> 00:42:01.830

WILLIAM HEBBLEWHITE

Yeah, yeah.

00:42:03.000 --> 00:42:04.510

WILLIAM HEBBLEWHITE

Alright, so uh.

00:42:06.510 --> 00:42:16.330

WILLIAM HEBBLEWHITE

What? Well, the question that you need to ask, and perhaps this is for the the analysis that you're the sales analysis team in in general is?

00:42:17.820 --> 00:42:27.110

WILLIAM HEBBLEWHITE

Why did the limitations? Why their limitations and and how can we overcome these limitations and what other projects can we think about in this sort of sort of?

00:42:28.450 --> 00:42:29.260

WILLIAM HEBBLEWHITE

Uh.

00:42:30.510 --> 00:42:32.730

WILLIAM HEBBLEWHITE

Mode, right? So I'm not a I'm not a.

00:42:34.420 --> 00:42:39.300

WILLIAM HEBBLEWHITE

I'm not. I'm not a daughter, Alice. I'm not a sales, and I'm not a business analyst. I don't know. Sort of the.

00:42:39.970 --> 00:42:49.310

WILLIAM HEBBLEWHITE

Ends and outs, or that those sorts of techniques or what sort of questions do you want to be asking, so you need to help me by informing me on that sort of stuff.

00:42:50.210 --> 00:42:50.770

WILLIAM HEBBLEWHITE

Uhm.

00:42:52.350 --> 00:42:52.870

WILLIAM HEBBLEWHITE

Yeah.

00:42:52.470 --> 00:42:54.820

ANH LINH LE

Yeah, OK. OK, I understand now.

00:42:54.370 --> 00:42:56.610

WILLIAM HEBBLEWHITE

Yeah. So. So. Uhm.

00:42:57.410 --> 00:43:08.070

WILLIAM HEBBLEWHITE

Perhaps that's a that's a uh, I'll, I'm that's a question for the analysis team in general. About where do we go moving forward given these limitations.

00:43:10.620 --> 00:43:12.510

WILLIAM HEBBLEWHITE

What other questions?

00:43:13.470 --> 00:43:15.720

WILLIAM HEBBLEWHITE

Related to redback operations.

00:43:17.010 --> 00:43:17.600

WILLIAM HEBBLEWHITE

Uhm.

00:43:19.030 --> 00:43:21.040

WILLIAM HEBBLEWHITE

You know, you might start looking at.

00:43:22.250 --> 00:43:26.100

WILLIAM HEBBLEWHITE

Uh, marketability in relation to IoT sensors, right?

00:43:27.020 --> 00:43:30.460

WILLIAM HEBBLEWHITE

Because the IoT sensor team is trying to develop and.

00:43:31.260 --> 00:43:31.840

WILLIAM HEBBLEWHITE

Test.

00:43:33.330 --> 00:43:51.260

WILLIAM HEBBLEWHITE

Uh, actual devices. So what's the marketability around that? What is like, what sort of questions do we need to ask around that? What sort of one thing to look at might be to help the IoT team is like what sort of IoT sensors are people buying?

00:43:52.160 --> 00:44:01.480

WILLIAM HEBBLEWHITE

What do they look like? Why are they buying those certain types right? Those sorts of questions, there's a lot out there. I don't want to tell you what to do necessarily.

00:44:02.840 --> 00:44:06.620

WILLIAM HEBBLEWHITE

But it it's a it's a question that the analysis team might have to discuss.

00:44:07.810 --> 00:44:08.280

WILLIAM HEBBLEWHITE

Right.

00:44:09.030 --> 00:44:09.570

WILLIAM HEBBLEWHITE

Uhm.

00:44:10.660 --> 00:44:11.660

WILLIAM HEBBLEWHITE

Does that make sense?

00:44:13.260 --> 00:44:15.080

ANH LINH LE

Yes. Yeah, he is missing.

00:44:16.230 --> 00:44:18.860

WILLIAM HEBBLEWHITE

Cool. Any other questions?

00:44:21.850 --> 00:44:26.700

SHASHVAT JOSHI

All regarding the road map, is it for the whole team or purpose and that was to make.

00:44:28.100 --> 00:44:34.060

WILLIAM HEBBLEWHITE

Uh, so I made one just for my development thing. It's probably good if you have so.

00:44:35.830 --> 00:44:53.380

WILLIAM HEBBLEWHITE

Save save the algorithm team because me, you and Andrew or different are working on different algorithms. We probably want to have a road map for our whole team and a road map for each other for ourselves about how to sort of progress and sort of try and match those up.

00:44:54.660 --> 00:44:58.630

WILLIAM HEBBLEWHITE

For Lucy's team, where they're all working together.

00:44:59.260 --> 00:45:29.180

WILLIAM HEBBLEWHITE

On a single sort of project then it it makes much more sense to have just a whole team road map rather than an individual road map, so it's going to come down to how your team works, what sort of projects are in your team. So the the analysis team has two projects they might need, or they might have three projects. They might need three timelines or three Rd maps, but road map just it doesn't have to be a road map, doesn't have to be.

00:45:29.630 --> 00:45:31.630

WILLIAM HEBBLEWHITE

Uh, my innocence.

00:45:32.980 --> 00:45:35.720

WILLIAM HEBBLEWHITE

Achievable in that you will achieve it.

00:45:36.390 --> 00:46:04.860

WILLIAM HEBBLEWHITE

It just has to show the directors and like the unit coordinators that you're thinking about how your project is going to progress over the trimester and whether or not you meet the goals of that is going to be something you'll have to reflect on in your like your interest, individual retrospective, right. You're like, I set myself this task. I couldn't. I couldn't achieve it because of these limitations that goes all into your sort of individual retrospective.

00:46:08.230 --> 00:46:09.660

WILLIAM HEBBLEWHITE

Does that make sense? So shut.

00:46:10.290 --> 00:46:13.590

SHASHVAT JOSHI

Oh yeah, and do we have to give it by next Friday meeting?

00:46:14.640 --> 00:46:21.890

WILLIAM HEBBLEWHITE

I'm just like, so yeah, the road map is probably not for meetings, but it's probably something that you just wanna uh.

00:46:22.800 --> 00:46:26.020

WILLIAM HEBBLEWHITE

As just a good way of keeping you.

00:46:27.050 --> 00:46:36.210

WILLIAM HEBBLEWHITE

Uhm, honest on what you can achieve, right? And when you can achieve it. So like I said, my road map specifies like weeks.

00:46:36.910 --> 00:46:43.780

WILLIAM HEBBLEWHITE

So in week 7 to 9, I hope to start this in Week 9 to 11. I hope to have started this, that sort of thing.

00:46:45.410 --> 00:46:50.100

WILLIAM HEBBLEWHITE

It doesn't have to be certainly strict. It doesn't have to be shown at the meeting.

00:46:50.720 --> 00:46:51.180

WILLIAM HEBBLEWHITE

Uhm.

00:46:51.850 --> 00:46:56.830

WILLIAM HEBBLEWHITE

But just having it there and even having it in our teams folder would be useful.

00:46:57.660 --> 00:46:58.010

SHASHVAT JOSHI

Oh.

00:47:02.330 --> 00:47:03.250

WILLIAM HEBBLEWHITE

Anything else?

00:47:09.260 --> 00:47:11.450

WILLIAM HEBBLEWHITE

Yeah, remember to upload.

00:47:12.060 --> 00:47:17.280

WILLIAM HEBBLEWHITE

Any, once again, any documentation that you've written up or.

00:47:18.250 --> 00:47:24.200

WILLIAM HEBBLEWHITE

Put together into the data science and analytics team folder. So let me show you this again.

00:47:24.970 --> 00:47:26.000

WILLIAM HEBBLEWHITE

Come here.

00:47:27.700 --> 00:47:36.500

WILLIAM HEBBLEWHITE

So I've, you know, I created the algorithm prototype development folder. We had the benchmark research that's already done database research.

00:47:36.910 --> 00:47:51.600

WILLIAM HEBBLEWHITE

An open source database data set, research, that sort of thing. If you need a new folder for your stuff, just create it. But remember to put all your things in there. That also helps the people doing the wiki to sort of.

00:47:53.100 --> 00:47:55.660

WILLIAM HEBBLEWHITE

Update on what's available to us.

00:47:56.660 --> 00:48:12.680

WILLIAM HEBBLEWHITE

Remember to continue to fill out your log book as often as possible and make sure it's up to date. Otherwise you get you get behind very quickly and remember to fill out the experience. You see me and Andrew have done this.

00:48:14.030 --> 00:48:14.610

WILLIAM HEBBLEWHITE

Uhm.

00:48:15.300 --> 00:48:22.070

WILLIAM HEBBLEWHITE

And it just shows like skilled in Python, skilled in these sorts of things and I want to scale up in these areas.

00:48:22.720 --> 00:48:23.310

WILLIAM HEBBLEWHITE

Uhm.

00:48:24.020 --> 00:48:35.600

WILLIAM HEBBLEWHITE

And Andrew wants to scale up in these areas that sort of thing. That's what you want to do. You might not achieve all this upskilling in this trimester, but it shows like what? What you hope to do.

00:48:38.280 --> 00:48:38.820

WILLIAM HEBBLEWHITE

Uhm.

00:48:40.520 --> 00:48:47.740

WILLIAM HEBBLEWHITE

You don't have to worry about task 2.1. I think there's also been an extension given to that, so thank God for me.

00:48:49.790 --> 00:48:59.410

WILLIAM HEBBLEWHITE

If you have any questions about your project or about your team, you can contact me. I'm mostly available the only day I'm not available is Wednesdays.

00:49:01.320 --> 00:49:06.700

WILLIAM HEBBLEWHITE

But I think everyone is doing really good job, like like you're all doing great so.



00:49:07.290 --> 00:49:15.350

WILLIAM HEBBLEWHITE

And and the discussion I got from the directors at our last meeting was they, they were all really impressed with the students in our in our cohort in our group.

00:49:16.300 --> 00:49:19.890

WILLIAM HEBBLEWHITE

And how we were, how we were progressing the the the company.

00:49:21.310 --> 00:49:25.450

WILLIAM HEBBLEWHITE

So yeah, great work, everybody. And that'll be it. Enjoy your weekend.

00:49:27.740 --> 00:49:31.580

WILLIAM HEBBLEWHITE

Feel better if you're not feeling too well and relax a little bit.

00:49:32.790 --> 00:49:39.370

WILLIAM HEBBLEWHITE

And I will see you next Friday for the next catch up meeting.

00:49:43.820 --> 00:49:45.880

VINAY RATTA

Thank you everyone. Thank you.

00:49:47.680 --> 00:49:48.190

ANH LINH LE

Thanks.

00:49:48.460 --> 00:49:48.950

ANH LINH LE

I'm sorry.