Unknown Speaker 0:00

Thank you, Max.

P19 0:02

Looks like it's working. Thanks.

P20 0:04

Okay, thank you.

P17 0:07

We need to have a document of the group here the action items for the group recorder. On David, can you also create a Google doc and share it with us?

P19 0:17

Or Yeah.

P18 0:20

You know, in charge of everything, I guess, yeah.

P17 0:25

Let me put my or actually, I'll come up when you search my name.

P19 0:31

Yeah. My name hopefully

All right so

okay just sent it

See, you could find it

Unknown Speaker 1:56

working on

P19 2:11

okay to have you found it.

P18 2:35

All right, so we need to pick one together. He actually taught me English.

P19 2:40

Yeah, I heard a lot of us say three.

P18 2:44

Okay, let me go. Was that a lot of us as to what I did too? Yeah. Okay, the sweet people did a good place to start, I guess.

P17 2:54

Yeah, it's gonna give your reasonings for for white art. David and Cooney, what were the you said three and seven? Which one did you put first?

P18 3:06

I put three questions individually. Yeah. Okay.

P19 3:10

But I went back and forth between the two. It wasn't like it was a big choice think decision.

P17 3:19

Um, you do want to give your reasons for for why you all chose chose three.

P18 3:27

But we did go push on both.

P19 3:29

You can go.

P18 3:30

Alright, cool. So, three, if you look at the I looked at the tape, I looked at the table, but to like cut down the overview table. Three has a good accuracy, which was something I really kind of valued because we want to keep we want to put people who are going to be commit crimes. And again, people who are them, Republicans are responsible because we want them to be useful. People should see it and not spend, like 40 grand a year on them getting incarcerated. Or I think it's actually way more than 40 grand You're going to do that but whatever. Yeah. And I also looked for ones that did not have high motor cause high disparate discrepancy between between fuel types. So it's a fair system and they weren't. And it's not like it's really screwing over a particular type of people may be like, women, black people, white people, whatever. The idea is that it's supposed to be fair to all people. So I look for ones that do not have an x in addition, options. And for like, false positive rate report negative rate, I didn't really care particularly because it's like, I don't feel like one is much worse than the other. It feels like the equally bad of letting someone else can we commit a crime out early or someone who's not coming out late feels equally bad to me. So I didn't really care about those two columns at all.

Every column now I think so.

P19 4:56

Yeah, I mean, I came from a similar perspective, I guess I did put more emphasis on I wanted to reduce false positives as much as possible. I think, to me, it's having people that test positive but are actually going to read or committed another crime. It's kind of like just calling them out as guilty before they've actually done anything. So I would rather keep that as low as possible. And maybe even if that's a little bump in false negatives, then so be it. So I think that's why looking at three versus seven, that's probably why I went with seven because it had even a lower false positive rate. But I also liked three because in the whole scope of the all eight of them, they're both low. And again, like you said, I wanted the disparity to be low as well. So I think both of them are below 10%. And model seven, the false negative rate is like 15%. But like I said, false negative wasn't as big a deal for me. It was really false positives that I was focusing on. Yeah.

P20 6:03

Yeah, I looked at the false positive to me like with my decision making factor and then I think there were there was one I remember Thunder really

Unknown Speaker 6:13

low.

P20 6:14

I was positive, the model five. And the reason I didn't go that was just because I had like such a high false negative that I think the benefit was really worth it. So I kind of went with another model. Mm hmm. I agree. I think the balance is important too.

Unknown Speaker 6:30

Yeah.

P19 6:34

Oh, God. Oh, go ahead. I just gonna say real quick that I think the accuracy was interesting. Accuracy is pretty much the same for all of them. It's all between like 60 and 70. So it was never a big deciding factor for me.

P18 6:45

60 and 70 is a big difference if you look at millions of people though, I guess.

P19 6:54

Okay, good.

**P17 6:56**

Okay. So the reason why I chose model four was I thought the accuracy was like decent like generally I think above 60 is like a threshold because if it's below like 60 might as well just like pick by chance. So I thought model four had like a decent It was like a fairly even accuracy between white American and African American. And then the reason why I wanted to I tried lowering both false positive and false negative was because for example for if you have so let's say for example like model number three which has like quite a high false negative rate or like say model seven which has also a high false negative rate, but that means because false negative rate is calculated as false negatives divided by false negatives plus true positives, it means that

there's not a lot of true positives being

I guess it's count, like it is count, but based on the percentage, it means that the model is better at predicting. Who's not going to reoffend other than for I don't, I forget how the data is split but yeah, anyway, but like wrapping your mind around all this stuff. Yeah. I always have to, like say it out loud in my head. Um, I just thought like having a false negative rate meant the model wasn't. Um, maybe now that I think about it like, I guess like accuracy. kind of takes this into account like the differences in true negative and true positive like was thinking for a false negative rate and meant that the model if you have a high false negative rate, and the model wasn't great at picking up true positives, but I guess based on accuracy, like maybe, I don't know, maybe the split between true positives and true negatives isn't so even.

P20 9:27

So you're saying,

**P17 9:29**

Why am I lowering false positive? Yeah, so like for both of those, I thought by reducing both of those. That meant that the model was picking up on more true positives and true negatives. But like accuracy for number four, which is like true positives plus true negatives divided by divided by true positives and false positives and and true negatives and false negatives. Like low is like, a bit lower than not a bit like, like 5% lower about, then like model three. So

I mean, I guess now like now that I'm like kind of rambling

that that kind of confuses me a bit. But yeah, at least like when I was looking at it, I was trying to reduce false positive false negative just because I thought that meant that like the model would be better at predicting true negatives into positives, but it seems like accuracy would be a better way. percentage wise since I don't really know the breakdown of a of the people committing versus not committing another crime. I think we did. It might have been like when we clicked on the quiz, but like

i i

P18 10:59

Amar back Other people have been charged again adoptable recommended in 2000 will not be committed. Okay. It's 1060 in 1930, but I'm holding on to that word. Two thirds.

But yeah, okay.

P17 11:19

Okay. Okay. Um, yeah. Do we? That was my reasoning. And then with one, I thought, one

um

I feel like I kind of fell back on one as having like,

P18 11:45

honestly speaking as well, I wouldn't use any of these. I don't think there's something below 8085 which he should be used for something that's important of like, Can we go to time?

We honestly think it should be 90 bucks. At minimum

P17 12:03

they're also training on a fairly small data set. Hmm.

P18 12:08

Yeah, very, very small.

P20 12:14

But I guess Do you guys think that the highest cost in terms of a decision would be for the false positives?

P18 12:21

Is cost, which is a false positive or false negative worse?

P20 12:27

I think false positive rate here, you're getting a longer sentence even though you're not gonna commit another crime.

P17 12:34

Well, I think for the general public, I feel like they would want to reduce false negative like, if if I weren't in this scenario, like looking at it more objectively. Um, I would not want a road criminal on the loose in public, somebody who's a violent like, while a violent gunfight, maybe like a violent armed robbery. Do you really want I'm to be robbing a bank sooner or later, like, do you want them to be kind of robbing the

P18 13:06

bank again with a gun, for example? And

P17 13:08

I guess, like, in that sense,

like, you don't know if, if jail is going to, like change someone or not like, I guess that's the whole purpose of this model to like predict whether or not they will commit another crime because like, the purpose of jail, whether people agree or not, like on paper, the purpose is to like it, it's like, first, serve as a punishment and second, like, rehabilitate people for reentering the workforce and things like that. But, you know, that's not always necessarily true. Yeah. So it's kind of like a different perspective on how you view things like false positive like, do you want an innocent person to spend jail time Or prison time for something um or potentially serve potentially served prison time or have someone on

P18 14:10

the show in person have any weakness they have committed

P17 14:13

okay okay so that

P18 14:14

they all have committed a crime and it's like do you think themselves the longest sentence is better longer sentence for because we think they might come in and crime again or do we give them a shorter sentence and they might just go and rob the bank the second they get out because these guys are like guilty but which we check if they give there'll be guilty guilty and I'm like they're already guilty so I feel like that's why I even got on the it's about the same so let's put in money too much.

But David isn't they would I think you said no, I'm not

Unknown Speaker 14:49

guarantee that

P18 14:51

you're the innocent before giving.

**P19 14:52**

Yeah, I mean, that's it. That's how whether you like it or not the way the American system is built is that you're innocent until proven guilty. So Maybe in an ideal system, you could challenge that and put priority of the community over the individual. But right now, we're all about individuals and being justice brought to that individual person. Yeah. So the way our system is set up, at least I think it's false positive takes precedence over over false negative. Otherwise, it's a larger like cultural shift. Which might be better. I don't I'm not gonna that's a whole different discussion, but

P18 15:31

that's gonna take 20 minutes to go through that. Yeah, let's just skip that part. But yeah,

**P20 15:37**

I guess I was just trying to ask because in terms of picking between the models, like that's definitely a big factor is if you're going to focus on the false negatives, if we focus on the false positives, yeah, because like you were saying the accuracy is pretty consistent across all the models, but that's definitely a point of that we could make a decision on which model is better. The number

P18 15:56

on the on the Polish auto route it said 40% 70% I did not see anything below 50 here the equity range, and it was 48 was supposed to be low. Yeah, it's 40 to 70% I think it was four years was the coin toss.

P19 16:14

I'm like, that's true. Yeah.

P18 16:16

Isn't the coin toss more fair? Yeah,

P19 16:24

so I'm still liking three and I like that a few of us other like the rest of us pick three. But I agree like model five i think is a bad idea. Even if I put false positive is best. I don't want it to be completely lopsided like that with false negatives all being over 90. That doesn't make a lot of sense either.

P17 16:42

Think model threes a

model three is a good balance of having a pretty low of having like the good accuracy, pretty low false positive rate and like a not so high false negative rate,

P18 16:59

like 10 bucks. If not egregious,

P17 17:03

right?

Like something like model seven, which David said that he put first has like a comparable accuracy rate and a lower false positive rate on the model, the difference, right most much higher false negative rate and then I'm like one thing that I was also considering when I was looking at these was, um, the, the disparity, like, Did you guys consider that at all?

P18 17:34

Yeah, um, disparity for three is about half as much as seven. Yeah.

P19 17:40

If I read it, I probably would have put three at the top I think, okay, I just didn't have a ton of time. So.

Okay, so response to actually like put this into a policy or something. Well, it was the actual prompt

Unknown Speaker 18:02

Yeah.

P17 18:05

Okay, so we have it says use the checklist to facilitate your discussion. We can maybe try looking to some other questions or some of these points if we have not actually

P18 18:17

joined our writing. How long do we have to

P19 18:22

30 minutes? There's 15 minutes for the end. Yeah, he's

P18 18:25

looking good. So

P19 18:27

watch 15 minutes from the end would have been two minutes ago. So,

P17 18:30

okay, so maybe we should start writing about writing

P18 18:32

in that case. Yeah.

P17 18:34

So enter the model number you choose and write your action.

Unknown Speaker 18:43

I guess the point.

P19 18:45

Yeah. Okay.

Unknown Speaker 18:51

So what does this mean?

P19 18:57

see exactly what we're doing. proposed.

proposing what just proposing why we picked?

P18 19:06

Yeah, that model? Yep.

P19 19:08

Okay, well, that's pretty simple, then

we could compare against a few different ones. Yeah.

P17 19:19

It says, um, make sure to discuss the pros and cons of each model. So maybe we could start out by

like a quick explanation like what Kuhn said about how we could immediately filter out like the really low accuracy ones. And then that leaves us with like, models XYZ, and then we can do additional chasing on that.

Because I think that's a reasonable thing.

P18 19:49

I can I can write about the low accuracy stuff and it's

good. Well, how do you over time so quickly? Okay.

Alright, so we need to add the 17311317

P19 22:33

okay yeah,

**P18 22:38**

once other one that's decently high, I could go to one now if you want but 68 is pretty decent up to three and seven even we can we can change the numbers later. Let's write 7% and we can write one if we have enough time

P19 22:52

are we comparing against these are just, these are like our second choices but what is

P18 22:57

no no we should say that these are all three of So we came down to, okay, so I guess we can talk much one as well. We have time, but not I can take offline.

P19 23:08

Yeah, I mean, what whatever you think you can do.

P18 23:11

I can just change the filtering rate to be like, just talk to each other top three. Okay. That's like not difficult.

Top three seems like a more reasonable number to go with me

to help us out here.

David, can you read enough I typed out?

P19 23:41

Yeah. I've been kind of reading it as it's been typed. I think it's a whole lot of false positives and false negatives all over the place. But that's, that's what we're dealing with.

P18 23:52

I mean, that's the type of question. Yep. Like,

P19 23:57

yes, like read it slowly.

P18 23:58

I honestly Don't know how they managed to get good post positive and negative. When is this even real deal? How did they get good false positives and negative ways with

P19 24:08

bad accuracy? I think they just made it up. Briefly. Why do you think it's real?

P17 24:13

I think it's I think it said it was real. Really? Yeah, containing actual data. But I think it's just the sample size is too small like, like, amongst 3000 people I don't like most criminals are. I don't know if criminals necessarily like the same. We're like a pattern amongst criminals must be over like hundreds of thousands of criminals not necessarily dislike 3000 Yeah.

P18 24:59

Me Apparently that is supposed to be like to 2 million people incarcerated in the US.

So

1000 is a pretty small number.

Unknown Speaker 25:15

Right? How many person? 2 million or 2 million

P18 25:19

people in color?

I think that's the math correctly.

P19 25:24

Yeah, I think I've heard that right. And like a little bit higher than they said,

P18 25:27

Oh point 7% which is this 330 million people in here?

About 30 million so. Yeah.

Yeah, about 2 million. That's about right.

Did they forget that we'll

call us back at some point.

I think we're doing the other pocket homework.

P19 26:16

That's my guess. Yeah, right. Just an individual survey. So there's five minutes left and I get

P18 26:21

when I get done

all these had to give up on it. I saw the option.

I think we can put something here. We

P17 26:45

should be talking about how like,

right, like the US Justice System.

P18 27:05

Like that maybe?

P17 27:10

Yeah, I mean, I'll just add like American justice idea.

Unknown Speaker 27:15

Okay, sounds good.

Unknown Speaker 27:17

Hey, man, I think this looks pretty good. All right. Good.

P18 27:28

There we go. There we go.

P17 27:30

So we see this Submit.

P19 27:33

Yeah, I think I'll take care of it because I did the video on that. So. Yep.

P17 27:37

Okay. Is there a is there an assignment to like, do you submit in? Oh, you put in the doc. Yeah. In though like, Okay.

P19 27:45

Like so. Yeah. Doc link of your team proposal to this folder. So is it literally

P18 27:50

we need to be done with you before you can do this.

P19 27:52

as well? Yeah. Right. No, well, but I just want to see what how they want us to submit it because I think it's a Google. He has a folder There's one copy to the

folder. Okay, yeah, I'll figure it out.

P18 28:07

Just ping me on slack if for some reason you can't figure it out now, I think it is a file some weird reason that they

P19 28:14

made it. I might have to just download the file and then upload it again.

P18 28:17

Yeah.

P19 28:21

But we should be good. Everything does this look.

P17 28:23

Does this look. Okay.

P18 28:24

Looks good. Should we go back and see if we were supposed to be back like 10 minutes ago? Yeah, let's

P19 28:30

join back. They would have told us but yeah, we can check out the record. All right.

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