Theme	Code		Quotations CF1		Quotations GF2	
	*	S1-1.b-P4: "It's calm Because It's Experiment And the issue tag And its title So It's very Calm."			() "the list quastion have, from this first session, is about whether you were able to understand the instructions about the structure stand," of the model branching, of the branchine and on the criticals flat wave proposed there, gradually Them. To be applied between the strainlien of the environments, and between the branchise. If you, within you writed, it was it does not you?"	
	Navigation between the model branches is straightforward.				understand the instructions about the structure itself, of the model	
		\$1-1.bP1: *			be applied between the transition of the environments, and between the branches.	
		(Moderator): Closed And so, thinking about this structure, would it be easy to navigate? Is it possible to understand what each one is?			If you, when you read it, was it clear to you?"	S1-1.a-P2: "So the branching was pretty clear from the beginning"
		(P1): Yes.			\$1.4.P2: "For me, yes"; \$1.4.P3: "Yes"	
		Ot to D4 "Po I didn't con. We had this. When this world not made available on			\$1-44'5: 'Yes'	
		had several discussions about how it would work, right?				
		When we started experimenting and seeing how it would fit into our development, I,				
		for the experimentation part. I felt that Because When we do				
		Experimentation is not related to what we will make available to the team. We For				
		made available in the				
		\$1.1.a PA "Do. doors ass We had thu When this model was made ovailable, we will be a state of apprinciply of a stary be a few of the loss of exceptionaries, and a stary be a few of the loss of development, I, seem to determine the control make seem of the seem o				
		S1-1.a-P4: "Yes, but I think the team, the other teams that would consume, they have				
		\$1-1.a-P4: "Yes, but I think the team, the other teams that would consume, they have no interest in the training code. This training code my experiment, you understand"				
		\$1-1.a-P4: "For example, other teams will have access to things that they make no difference."				
		\$1-1.a-P4.*				
		(P1): But they want to tack your taining, right? (P4): Yes, yes. So, I think this should be separated from what we are going to serve. For example, the service that we are going to provide, this may be what will be consumed, along with the model that will be generated by the experiment. And this has I think this has to be ascarated to.				
		example, the service that we are going to provide, this may be what will be consumed, along				
		be separated from				
		that we From the garbage code that we're doing. Like, from Carbage like that, like, is disposable for other teams. They don't need to have that access."				
		is disposable for other teams. They don't need to have that access."				
		\$1-1.a-P4;*				
		(P4): Because, like, like [P2] (P2) will do it in the same place as us, ckey? The All Experiments that we have today. What is our experiment today. (P2), are we going				
		The Al Experiments that we have today. What is our experiment today. [P2], are we going to do the service there? What will be consumed?			\$1-3-P2: "And then I feel that this set, if we were versioning the model, it would	
		(P1): No. it's another renository			stready be, it would already be very good, you know? It's good enough to version the model.";	
		(P4): That's what I'm saying. Like, they won't consume from the experiments."				
					S1-3-P2: "Like, in the model I see this flow following better like, oh here I have an	
1	Branching model is suitable for versioning Al models and datasets	S1-1.a-P4: "I actually see this model serving well for version control of the models.	S2-3-P4: "but for the context of model and distaset versioning, doing this triangulation, I think it works."		experimental model, here I have a model like the development version, here I have a model that is in stage, here I have my main like this, it was. But without versioning the model I	
Adequacy of the branching model		\$11.34-Y-1 'actually see this model serving will for vession control of the models hermalistics. Dry'd the product that will be consumed. So, for example, while I'm in the code, list's suppose that this on here is mine training code. I man I; man it and then I want to record that this experiment was done and generated result 3. Then I will vession I; So, I leave it in a repository, but it result is what will be considered result 3. Then I will vession I; So, I leave it in a repository but it result is what will be considered to the service of the considered in the considered to the considered in the considered to the considered	. mone.			
Awquacy or the branching model		training code. I ran it, I ran it and then I want to record that this experiment was done and			I have a little difficulty, I'll be honest."; \$1-3-P2: "Yeah, I think if it were accompanied by a versioning of the model, following the same standards, maybe it would be it would be easier. Or if the model was versioned in this standard."	
		generated result X. Then I will version it. So, I leave it in a repository. But its result is what will be consumed. It is what it generated, right? And that, it can follow this model."			It were accompared by a versioning of the model, following the same standards, maybe it would be it would be easier. Or if the model was versioned in this standard*	
1						
1		S1-1.a-P4: "I think it Within a repository, experiment should not coexist with the service				
		that is going to be built. That's my idea. The				
1		\$1-1.a-P4-* T bink it Within a regicultury, experiment should not coasial with the service that is going to be built. That's my idea. The What I feel is a hist this mode is greated or model and data set versioning. Because we have the experiment part there. So, there it have the models that the reperimenting with. I can save it whenever I greatest an experiment, commit them. You can even do this in a whenever I greatest an experiment, commit them. You can even do this in a				
		whenever I generate an experiment, I commit it there. You can even do this in a				
		automatic I commit the metrics of this model, of the datasets that I used. Then, great. Alt, this nee is a I persented I freinded the operiment, I generated metrics and such: I has a banchmark. They are to develop, to be underful conceilabladed Thum, this model have was what was the such as the such that the content of the such that the such th				
		Ah, this one is a I generated I finished this experiment, it generated metrics and such. It has				
		a benchmark. It goes to develop, to be unified, decentralized. Then, ah, this model here was what was the				
		chosen. These models that we have, this was the one chosen for With the best metrics.				
		So, it goes to stage and then Then, I see it working for model and dataset. But, for example, the service that we see pring to do is not a days from the form All neg distribution.				
		So, I see that we can use Gifflow to do the job. Which is a development*				
		S1-1.a-P4: "For models and And Datasets that That come from experiments. I think that works male well. This This This model that you made. And for For the				
		experiment I think it should be something closer to a A Trunk Based. Because it's				
		These are quick things that People Sometimes we run in In ten does there. Oh it right) work?				
		\$1-1.a P4. Yor models and And Dasses that That come from experiments. I finish that under goals will. The The model that you make. And Tu For the experiment (Table And that loss sensingles up to a Ju Through Saudel Secress FL Program Sometimes were use. In the doing these On, if do'th world Only, Lett Lett's sensit registered. Dat Verson Descript model these such a big programs on this yor is But on top it Of models and Dassests and And Environ that was by its based commany.				
		progression on top of it. But on top of Of models and Datasets and And				
		Then you read it."				
		S4-1-P4: "The dataset model, we can use this model that we will make available to other teams."				
	Branchina model occivises a subside framework for Al model evolution for stacing and	S1-1.cP1: "Well, my opinion is very suspicious because I silvaidy work with that on a daily basis, at work. So I had to implement that because of all the problems I				
		work Who does a merge there in develop, in stage, I have code review, right? I have other people looking at it. And, for example, there in main there is only one person who throws				
		things into production. Get it? So				
	development environments	approved, approved, but it is not the developer who puts it into production. It is someone else. So, from a business point of view, it makes total sense. From an Al point				
		of view, I have no opinion."				
		S1-1.c-P4: "If the service, and if this is to serve as a model, I think it makes sense. If for a model, I think it makes sense, for a service, I don't think it does."				
				S1-2-P1: I'm seeing that it's very similar to things I already do.		
			\$2-3-P1: "Yeah and then I ask you, do we have the option of having this flexibility in the	S1-2-9": I'm seeing that it's very similar to things I already do. I understand everything involved in the story, but reading the article once, trying it out, I will do		
	Branching model restricts experimentation		52-3-P1: "Yeah and then I sak you, do we have the option of having this flexibility in the experiments pair? So, no. You want us to use the model."	I understand everything involved in the story, but reading the stricle once, trying it out, I will do very little. I don't know what belance we will find in the project, to meet all these other sides, because in the end we		
				You need to create a product, but everything you said is good practice, it has to be done, it		
				would be great if you could have done it."		
						S1-1.a-P3: "But, at least for me, in that first sprint I didn't I
	Branching model not used for artifact versioning					S1-1.a-P3: "I generated a PDF document that has all the results, all the prompts, all the
						common but it's such institutes for the
			S2-1-P4: "So I didn't worry about following the model, because I thought it would be fessible to			that we have in Drive, it's not in Git yet."
	Branching model was not used due to the possibility of adapting the model		S2-1-P4: "So I didn't worry about following the model, because I thought it would be fessible to change."			
1		\$1-1.a-P1: "But that's what they want. They want you to open a branch when you start doing a new experiment, you know? Name it experiment, and then you'll get to the end of the sprint				
		a new experiment, you know? Name it experiment, and then you'll get to the end of the sprint and you'll have 5 experiments, 10 experiments, the one that had the most results, you will merge to develop."				
		experiments, 10 experiments, the one that had the most results, you will merge to develop."				
Lack of motivation to use the branching model		S1-1.a-P1: "But this experiment You will version your code. Your setup. Yes. The result of the model. It's not supposed to be versioned. But what they want is the tracking of their experiments. Of their code changing. The parameters changing."				
		the tracking of their experiments. Of their code changing. The parameters changing."				
		S1-1.a-P1: "It's new for us. But I think that's what they want. You'll generate the experiments.				
		When we get here and present the results, some of these branches will be chosen to go into development, production, etc. Then that one will be merged. And the others will be closed."				
		others will be closed."				
		S1-1.a-P1: "But I think we would open new branches at the same time				
		Classifier repository and over time the code will be replaced, changed, you know? This will be gradual. But what they want, and we are part of the research project that is hisner than the				
		S1-1.s-P1: 'Dut I think we would open new branches at the same time. Classifier repository and over time the code will be replaced, changed, you know? This will be gradual. But what they want, and we are part of the research project that is bigger than the Al poople, is how an All team adapted to use a CI/CD flow, git control,				
		versioning, within our experiments. So that's what they want."				
		g a man my man.				
		S1-1.a-P1: "But they want to track your training, right?"				
		oi-1.a-P1: "Clkay, I get it. That's the point. If you spent three months working on a series of experiments And you're going to hand it over to your boss And none of it				
		S1-1.3-P1: Usely, I get it. I mar a two pare. If you spare three more severing on a series of experiments And you're going to hand it over to your boss And none of it worked out he'll probably ask you where that these N experiments that you did are versioned. Got it? I think that's the point. Got it? I				
		that these in experiments that you did are versioned. Got it? I think that's the point. Got it? I think that's the point. So, if it's git flow, if it's this, from here, it doesn't matter, but it's Where				
		think that's the point. So, if it's git flow, if it's this, from here, it doesn't matter, but its What's a given for us is We version our experiments, and know that a series of things will be				
		closed, will remain in the past. Got it? Now If it's git flow, if that's what they're proposing, I				
		don't know. Because sometimes you're proposing this here based on an article you want to a publish. Some reference. Got it?"				
	Versioning experiments from the branching model must be performed due to third party wishe	publish. Some reference. Got it?"			L	
e l						•

	A.11					
Inene	Coos	S1-1.a-P1: "Okay. Why don't we use Gitflow?"	Quotations GF1	T .	 Quotations GF2	
		\$1-1.e-P1: "I don't know. I don't see any difference. You have a master that is the main. You				
		have a hotfix that comes and destroys everything."				
		\$1-1.eP1:				
		(P1): So, I'm going to create I need to work on a model to increase a metric. Then I open a branch. I work, I do experiments there. It generated one or more branches, there. It doesn't matter. Then I get the result. We make the decision. Are you going to merge or not?				
		matter. Then I get the result. We make the decision. Are you going to merge or not? You've going to merge. You've going to.				
		You're going to merge. You're going to develop as if it were the user's issue. Aren't you going to merge? We'll close it. And it's saved there in the history.				
	Branching model is very similar to Git Flow	(P4): I think there's also a lot of semantics involved. So, when we're doing experiments, we don't work on a feature for the product.	\$2-3-P1: "From what little I know, as I said, it looks a lot like Git Flow. It's right up my alley."			
		(P1): Of course I work. If you are doing an experiment based on some expectation.				
		(P1): Of course I work. If you are doing an experiment based on some expectation.				
		(P4): Yes, but Yesh, that's what I'm talking about. Like, the feature will be an addition to				
		the product. Not necessarily an experiment.				
		(P1): Oh, but that's okay, but that's the thing. It's not a problem.				
		(P4): But theirs not GitFlow. Got it? Their's like thinking in semantics. It can have more or less structure there If we rename feature to experiment it becomes the same thing.				
Need to adapt traditional branching models to experimental		\$1-1.e-P4: "Yes. But the issue is one thing. Giflow is more based on features. It's about functionalities right? We deal make functionalities."				
environment		functionalities, right? We don't make functionalities."				
		\$1-1.a-P4: "No, I think it doesn't make sense in GitFlow. What GitFlow has, if you use it, is A lot of branches that are discarded."				
		S1-1.a-P4: (P1): So, I'm going to create I need to work on a model to increase a metric. Then I open a branch. I work, I do experiments there. It generated a				
		branch. I work, I do experiments there. It generated a or more branches, there. It doesn't matter. Then I get the result. We make the decision.				
		Are you going to merge or not? You're going to merge. Go to develop as if it were the user's question. Are you not going to merge? We close it. And it's saved there in the				
		history.				
	Despite the similarity, the original Git Flow may be unsuitable for the experimental nature of an Al project.	(P4): I think there's also a lot of semantics involved. So, when we're doing experiments, we don't work on a feature for the product.				
		We same work on a nature for the product.				
		(P1): Of course I work. If you are doing an experiment based on some expectation.				
		(P4): Yes, but Yeah, that's what I'm talking about. Like, the feature will be an addition to the product. Not necessarily an experiment.				
		(P1): Oh, but that's okey, but that's the thing, it's not a problem.				
		(P4): But that's not GitFlow, Got it? That's like thinking in semantics, it can have				
		more or less structure there If we rename feature for experiment it becomes the same thing.				
		sasture for experiment it decomes the same thing.				
1	Horfix is unnecessary for the context of experiment development S1-1.a-P4: 'Hotfix is unnecessary	sary'			\$2-1-P2: And I think that I think it was a bit like this idea that experimentation	
					something that isn't working out yet, but sometimes I go up because there's a section, or	
		S1-1.a-P4: "For models and And Datasets that That come from experiments. I think that works quite well. This This. This model that you made. And for For the experiment I hink is should be exembled please? an A A. Trunk Based. Because it's These are quick things that we Sometimes we run in In two days there Ch, it didn't				
		experiment I think it should be something closer to a A Trunk Based. Because it's These are quick things that we Sometimes we run in In two days there Oh. it didn't			some sides that someone else wants to take it, like that. Anyway, we followed this instability a lot because it was very difficult to define when something was good, or when it made sense to us, because we didn't know what made sense."	
	Experiments should be versioned in repositories with a less rigorous branching model	Work? Clear Let's Let's leave it renistered But it won? It doesn't need to have such a him.				
		work? Cikay. Let's Let's leave it registered. But it won't It doesn't need to have such a big progression on top of it. But on top of Of models and Debasets and And Services that need to be tested normally.			S1-3-P2: "I think it's really more like where we are today. The experiment is	
		There you need 2."			isolated and the code I'm uploading is already a code more oriented, therefore, towards something.";	
		S4-1-P4: "and for experiments with the experiment codes, the resulting artifact would be reports, it's more like benchmark comparisons, use something simpler, it doesn't need to be trush based, but maybe it ian't so stuck to the guidelines like that."			S2-1-P2: 'And then we want that the creation of this service is a service that serves	
		reports, it is more see benchmark comparisons, use something simpler, it doesn't need to be trunk based, but maybe it isn't			and communicates with other teams, and with with other parts of the code. It should be more modular, as I can change things here, in the	
		so stuck to the guidelines like that."			and communicates with other teams, and with with other parts of the code. It should be more modular, so I cain change things here, in the superimentation, for the craziest scenarios, and still be able to serve this on the other side. You know? And I think I think it was a bit in this idea that, experimentation, it needs to be free?	
					so, I think"	
	Adapting the branching model to meet the needs of the learn throughout the project					S1-1.a-P2: "And then, our experiment repository kind of loses that depth, as if it only had experiment and main, let's say.
						\$1-1.c-P2: "because it's as if we had also placed another repository there, so it's as if
			\$2-3-P1: "Yes probably at some point we will come to you and specify a demand. You		\$1.2-P2: "Sometimes in practice, when we actually do something, we find something that we see is a problem or that something is missing in practice, but, for now, in theory,	it were divided in half there, there was kind of like ours, our other repository starts from develop there, kind of taking some things
			will have to serve us in the same way we are serving you, it is part of the project."		that we see is a problem or that something is missing in practice, but, for now, in theory, from what we read, it makes sense."	It were divided in half there, there was kind of like ours, our other repository states from develop there, kind of taking some things from what's coming from the experiment, so I think for us, at least at the moment, the ideal would be like it had a little bit more down there, like, in experimentation."
						\$1-1.cP2: "and then I think that in that scenario, we need to adapt a little. Because
						maybe it doesn't meet everyone's needs'
						mapba it doesn't meet everyone's needs" S1-1.c-P3: "that we made these small changes to the two repositories to meet the The moment of the project."
Flexibility and adaptation of the branching model	Need for a holds branch in the blanching model	S1-1.a-P1: "I don't know, I don't see any difference. You have a master that is the main. You have a hotfix that comes and destroys everything."				
		S1-1.b-P1: "So, I think he's missing a hotfix in this story."				
		01 1 L 01 . *				
		S1-1.b-P1: " (Moderator): Do you think a hotix would be needed?	\$2-3-P1: "I'm just missing the Hotix within this flow."			
		(P1): Yes Yes Or separate, which is what Thiago is talking about What is AI, models And AI,				
		service.				
		S4-1-P1: "Technically, in relation to the model, I think we have to consider the Hotfix, as was				
		observed."				
						S1-1.a-P2: "conversation that we also had a little bit there in there in the middle from some sprint we said that keeping all of this with the experiment and the service code was
		1	S2-1-P4: "I didn't bother following up because I was hoping to have this meeting to discuss			a bit strange for us. That's when we ended up separating the repositories, right?"
			this, because I had found that experiments and services had to be separated";			S1-1.a-P2: 'And then we had several of these Of these experiments that If we were to actually use them, we would have to start all over again. And then to To also svoid a bit
		1	S2-1-P4: "I don't think it makes sense to have an experiment together with the service that			of So we kind of start over again With a similar numma inside there of the same removings and it is
Lank of references are historiciting models in Al			will be consumed.";			actually use them, we would have to start all over again. And then to To also are risd a bit of So we kind of start over again With a smiller purpose inside share of the same repository and it is like Two things were growing reads the repository which is the appearance and the and the service start, and wouldn't like it is surposed to the repository which is the appearance and the and the service start, and we doll think it is surposed to the present purpose and then it is a service to the service start.
	Separation of experiments and webservices into distinct repositories		S2-1-P4: "I think it should be separated from the contexts as much as possible.";			and we didn't think it was very cool. The experiment part becomes gigantic, and then it
			\$2-3-P4: 'But for the contact that we, if we were to do what we did,			things that we didn't need to look at when we were doing the job. And we chose to just
		1	I don't think it would make sense. Because we didn't have any service and I think that should be decoupled.";			separate them? S1-1,c-92: "because it's as if we had also placed another repository there, so it's as if it were divided in half there, there was
			S2-1-P4: 'in the experiment repository we created a trunk-based version and only with the experiment PR policy for day, which would be in this main, right. That's what we followed."			It were divided in half there, there was kind of like ours, our other repository starts from develop there, kind of taking some things from what's coming from the experiment, so I think for us, at least at the moment, the ideal
			experiment PR policy for dev, which would be in this main, right. That's what we followed."			from what's coming from the experiment, so I think for us, at least at the moment, the ideal would be sa if there were a little tenther down, like this, in experimentation."
						S1-1.c-P3: "that we made these small changes to the two repositories to meet the The
				\$1-2-P1: "Because when we get the codes, we have to		moment of the project."
				talk to the professor, okey? He's aware of the concern. When we get the codes of the published articles, man, the guys don't care. Go look, and see if there's a test. So, we even		
	Lack of Software Engineering Practices in Al Articles	1				
		I		soor a I was shocked, like, when we saw the talking about testing, you talking about Git Flow. I understaind. It's the final product that we've involved in. But, when I look at the academy, at the academy side, that's not what people do."		
			\$2-3-P1: "No. I think it's ok. Assin, there aren't many models out there if we look on the	, and an	-	
	Little diversity of GCS models	St 7 St. 1 have blick on and bigs as com-	S2-3-P1: "No, I think it's ok. Again, there aren't many models out there if we look on the internet on a large scale."			
	Need for reference sources to support comparisons with the proposed branching model	S4-2-P1: Thave. I think you could bring us some sources for us to compare, understand?"				

Theme	Code		Quotations GF1	T T	S3-1-P2: "I think some things are kind of standard, like that. We used we used the entire	Quotations GF2	
					Classification Report, which is Precision, Recall and F1. We look at the confusion matrix,		
			\$2-2-P4: 'We have the same metrics. We defined the metrics.		500. As member main ores, they are documented." S3.1-P2: "[P4] likes to use One DB. I don't know if you know it, but it's like a it's like a		
			So, with that we evaluated on Friday and sh, this is the one that will be used. So, but the two experiments were recorded as varsioned.";				
			\$2.2.P4: "We generated the metrics, the same metrics, the confusion matrices there and so on and with discussion, seeing the balance, we had decided on a method.", \$2.2.P4:		training of things. I ended up not using it, I left it off, but I generated the classification reports and put them there."		
	Standardizing Al metrics for experiment comperison				P2 1 P2 7 facilities the bird of a control thing like that I like the last than 1 days		
			rentegers we discussed that F1 and		I know that too. [P4], I think he already has a lot of experience, as the natural thing would be if if we get a classification report, we look at as many things as possible. I think he brought a lot more metrics than I did. He brought Rock Rock All Six Score, he already		
			CURVAL, which were important metrics for us to evaluate. Confusion matrix as well. Hiving defined this, we were able to make comparisons and define the criteria for what would be good and what would be bad.*		brought a lot more metrics than I did. He brought Rock Rock All Six Score, he already brought a lot of stuff there. But		
			to with house be good and with house be tage.		I think that, at least these traditional metrics like that, are what you expect when you're comparing something, or when you're looking at the result, at least."		
					companing something, or when you've looking at the result, at seast.		
				S1-2-P4: "You can generalize, take F1, which is what we see most. Then it depends on the data, the context."			
	Construitation of metrics across different typus of appairments			S1-2-P1: "Yes, there are a lot of things you can discuss there, you know? There will be a project that will show that F1 is the ideal metric."			
				S1-2-P4: "Yes, we can define it for specific tasks, you know? For example, if we think about identifying a variable. That's a fixed task, we'll always have to see the variable. We			
				can define the metrics that we will evaluate for this context. So, we define, we want F1, ROC	\$3-2-P2: "I think the ideal, in the future, in relation to AI, would be for us to have a fixed set of		
				CUTVA, execution time, model size. We can make this definition and then we always define these criteria for this task. But then	tests. Like a set, you know, well defined		
	Generalization of metrics across diseases types of experiments			these criteria change for another task. the RAC task for example. So, we define these what is best for RAC? It's HIT several.	SS-2-2-2: I traits the locals, in this future, in season to Al, would be for us to have a trave as trave as trave as traves. Like a set you brow, well defined that I want to test my model on that set. And then it would be kind of a final test for us, wow, how cool. We go through that same set and have these metrics here, for each one."		
				things. So, for each task we can make this definition and use it as a criterion. So, the criteria change from task to bask. We can do this.	one."		
				\$1-2-P4. "For us to search for context, for example. There is a metric for how well it is			
				retrieving context." S1-2-P4: "In the end, at some point, if we want to replace a method, we will have to compare			
				it in some way and we can define this			
	The same distainet was used to evaluate the experiments in comparison			how are we going to compare."	S3-1-P2: "And one thing we did, too, is to start from the same dataset.	*	-
Search for nanceon standardization for					Do trains, tests, splits with the same seed, you know? To have a fairer comparison."		
evaluation of experiments				\$1-2-P1: Because it's not just one metric, it's a set of metrics. Sometimes, it is the balance of several metrics or even the execution time of a business			
				that we will make a decision whether to move forward or not."			
				S1-2-P4: "Yes, there is a cost. If (P2) worked, even with a few less good metrics there, it would be the chosen one. Because it is more scalable, it is fester to be in production.		\$1-2-P2: "One thing that we don't have and that we do a lot is look at the size of the model.	
				Mine, to give you an idea, took a day to train. And it takes a long time for you to use, for you to make inferences."		training time. I think these are things that count a lot.	
			\$3-2-P4: "Yes, we considered the training time, we considered the the inference speed,	91 7 84 "There's an exist in an autition a business of CRT shall that are used once one to		for us."; "whether S1-2-P2: we like it or not, he goes a little beyond the metrics, you know? The metrics	
	Diversity of metrics used to evaluate experiments, in addition to classic classification metrics		right? It's the time it takes to execute, to make the prediction, we considered these two things. The size of the*	\$1-2-P4: "There's no point in us getting a business, a GPT chat that we can't even run to talk, no, it's getting better. There's no way. So cost, execution time is also something we think.		exist there, we compare them, but we have to kind of to analyze the Like, what do we lose by using one in terms of training cost, inference cost, all of that, you know?' \$1:2-P3: "there was one that took 5	
			things. The size of the	that we consider a choice." \$1-2-P-c: "It's good to at least document that this is also considered, in addition to the		minutes to answer me and he, for example, got more than 90% right, but another one	
				metrics. There's no point in us getting a business, a got chat in life that we can't even run to		took 30 seconds, he got 70% right, so we have to keep thinking about these things too, not just the risks and securacy between them."	
				talk, no, it's getting it right. There's no way. So cost, execution time is also something we think about, that		the rate and accuracy between them."	
				we consider a choice." S1-2-P1: "In our case, it's a financial cost, we don't even look at it, because we don't even			
				S1-2-P1: "In our case, it's a financial cost, we don't even look at it, because we don't even have the money to dare to S1-2-P4: "Yes, cost of model size, perhaps."			
				S1-2-P1: "Computational cost." S1-2-P1: "It's very complicated for you to specify metrics." S1-2-P1: "Yes, there are problems that you will look at F1, there are problems that you will			
	Difficulty in disforing a standard set of marks that can be replicated across different problems.						
				There are things that the teacher comes up with at the last minute." S1-2-P1: "There are things that, visibly, you come, present and are better			
			83-1-P4: "Didn't use the same metrics, because it wasn't the same problem.";	than the other. Because it is not just one metric, it is a set of metrics. Sometimes, it is the balance of several metrics or even the execution time of a business that we will make a			
			S3-1-P4: "Wine and P2's were parallel in the same problem. So much so that we had the	decision whether to move forward or not."	\$3-1-P3: "It's just that, in this case mine, my experiments, what I was doing, my		
			S3-1-P4: "Mine and P2's were parallel in the same problem. So much so that we had the same metrics. Hera wasn't anymore. It was it was another";	S1-2-P1: "Yes, there are a lot of things you can discuss there, you know? There will be a project that will show that F1 is the ideal metric."	S3-1-P3: "It's just that, in this case mine, my experiments, what I was doing, my experiments were very different from (P3) and (P4). So, I wisen't comparing them directly with theirs."		
			S3-1-P4: "For me and P2, a set made sense, and for her, if we took and used the same things,	S1-2-P1: "There is one more clargery for the problem. Because sometimes the same category in different problems, the performance expectation changes." S1-2-P4: "So, for example, we can determine what the problem is in the context and define matrics for that. There, for this, we will consider such and such. And then, for approval,			
			it wouldn't make sense."	S1-2-P4: "So, for example, we can determine what the problem is in the context and define			
				we only need to meet this," S1-2-P1: "but each article comes with its own metrics sometimes." S1-3-P1: "The metrics there, I discarded."			
				S1-2-P1: "but each article comes with its own matrics somatimes." S1-5-P1: "The metrics there, I discarded."			
		S1-1.a-P4: "This is the way we are tracking today, for example, when I generated the		S1-5-P4: "It's the metrics I also found that"			
	Experiment metrics results were documented in other software	secults Then I had a description strying, this model here was generated with this	S3-1-P4: "They are registered in other software that, when we talk about experiment, it automatically records this. So, within this software, I generated the report from				
		environment Using this data and these parameters Today it is done more by hand."	these metrics."				
					\$3-3-P3: "I think we left it in the issue comments. I think the Most of it is described there. Or at least it has a link to something external. And I think on		+
	Experiment metrics results were documented in issues				Discord too. We were always warring, like, giving updates, like that. Hey, I ran such and		
					such. The result was this. Hey, the new result came out here."		
					\$3-3-P2: "I think we left it in the comments of the issues. I think most of it is described there. Or at least it has a link to something external. And I think on Discord too. We were sheays:		
Land of Advantage on the Control of	Experiment metrics results have been communicated				warning, like, giving updates, like that. Oh, I ran such and such. The result was this. Oh, the new result came out here."		
Lack of defined process to document the experiments	informally among the team						
					\$3-3-P3: "Also in our team meetings, on Friday, we showed the metrics."		
					S3-1-P2: "I feel like it's kind of a natural thing, like that. Like I don't know either. [P4], I think he already has pretty good experience, so		
			S3-2-P4: "Yes, yes. We already knew which was bigger, which was smaller, but it's not		It would be majorited the get at classification report, we look at as many things as possible. I think he brought even more metrics than I did. He brought Rock Rock All Six		
	Metrics used to compare experiments were not documented		recorded."		Score, he sheady brought a lot of things there. But I think that, at least these traditional metrics like that, are what you expect when you're		
					comparing something, or when you've looking at the outcome, at least."		
	Acceptance orderia related to experiment metrics have been recorded in an issue				S3-1-P3: "a satisfactory result is when it hits 90% Above 90%. So it is documented in the balk, which was to accept with above 90%. And in the artifact, which I commissed, it also		
	Acceptance Council resisso to experiment metrics have been recorded in an italice				the bask, which was to accept with above 90%. And in the artifact, which I generated, it also has both all the hit rates, as well as a time comparison between them."		
						S1-4-P2: "Like, we've been using Git Flow, we've been using semantic commit for a long time.	+
	Preference for using the model because you have already worked with similar models		S2-3-P1: "Yeah, that's right. I prefer it that way, that's how I already work. normally."			S1-4-P2: 'Like, wa've been using Cit Flow, we've been using semantic commit for a long time. So, for me, it's natural. You know? Like, I don't know what scenarios are like where people don't work with that. And like, for me, it's always been.	
						retural to do this. So I have a hard time comparing what it's like not to do this."	
	Branching model seen as good practice		\$2-3-P1: "That's it, what can you guarantee me? Process. So, the probability of dirt entering production is greatly reduced with this, is it a good practice? Obviously, but there is a cost."			S1-4-P3: "but for sure maybe at the moment I don't feel like it's speeding up, but Of course, in the future, to revisit everything we're doing, it definitely speeds things up, having	
			g. comp. resident man use. In a group present community, but there is a cost.			things well organized. It's easy to look back and know what was happening."	
				\$1-4-P4: "Speeding up, it doesn't speed up, it guarantees the process, it guarantees correctness. Not of agility, of other aspects, of correctness."			
	Branching model allows process stability			S1-4-P1: "It's the fact of working in a team, we have to follow certain processes."			
d :							

Previous experience and perception of good practice

Theme	Code	1	Questions GE1			Questions GF2	
		S1-1.a-P4: "Yes, I understand that recording experiments is important. But I don't think it should be in the same repository as what will be consumed"					a)
Province experience and proception of good practices	Deportune of ventoring experiments	Dut foot mark is industrial or in this same implicatory as when we to consumed Si-1.a.Pt: (Pi): That's wify you have to create a branch, the name of the experiment, even if it's experiment 101, experiment 102, experiment 103, experiment 602 and 930 dot it' but it charged one fine of costs. You have but but, you have but to virisoloning.					
		(PA) Yes, I'm not along easy the obligation of having to version. 15.1.4.P.1 'Subst. just. Then the poor five specifies a month scaring or a series of experience and poor in a great base for the poor in a great base fo	\$33.P4 Tab, but both experiments were recorded to ventioned."				
		\$4.1-Pt." (Ph) Yaub I brisk fluids it. I think the code needs to be versioned. Whelever the model, it debest matter. (Ph) Brisk has been the second of					
		S1-1.a-P4: "Yes, I understand that recording experiments is important. But I don't think it should be in the same repository as what will be consumed"					
Application of the branching model is effected by unconstriction or line, of experiments	Branching model was not used that to constraint, about its regularities.	\$1.5 APA "Sections, Bits. Me [FG] [FG] off is it in the same place we set? The AP Exposition that we have drawn of the set of the section of					
		he experience part feets. So, feet in hear he models feet the experience great froit as see feet an electronic great feet feet. So feet in the feet feet feet feet feet feet feet	\$2.1-PL '1 Brought he model dicht match what we were looking lor. dryn '1 the cought he structure should be offerent'; \$2.5-PL '1 had dickte, we dicht make surphy appealshe, a list support that, if respected ding the, supprising that a model should be different for different contents."				
		\$3.0 A. 'The service, and if his is to serve as a model, if held in makes server. If for a model, it their it makes in the 's service, it has the disc.' \$4.1 A. 'Type worked to senforce that if you look a took, maybe set to [02]. It more he has experience with it was disc to he look on the factor of discopring from the second contract of the contr					
	Team has little sequences using branching models in subdiscustive of projects	18-22-PL The Jampson I protripated by Jampson Annaham			\$1.0.20 \(\text{C}_2\text{)} \) is a function of district box. (No No N		
	Experience impacting the view on the branching model					S1-3-P3: "As I said, in the form, also, besides being my first experience with AI, it's also my first experience working in a team, like, that works this way. So but for me, it's	
	Experience expecting the view on the bandwing model. Lank of lines to use or adapt the model, due to the virial phase of the project			\$1.3P1 in an moretie sail that question again." \$1.3P1 in an moretie sail that question again. \$1.3P1 'You don't seen mode an oronthe, (then beas is enough	\$3.272 "But in difficult for any sudfice this set filteraces are don't seen have that many vascing exemption, let deline a count of and that, trye becom?" \$4.272.7 But has the expect set, then we were propose propriets in the filter of the six way verteryorist, but he do. for a six way verteryorist, but he do. for the date, at least, is to relations come particles and the first area of the six way verteryorist. And the first the label and that it is relations come particles. And \$7.2.7 State of the proposed \$7.2.2 But the first that is the six of the s	series, you know?" can book of the document, and understand that it makes series. \$3.20°, "There that, it visition to the clothe for transit, was didn't change anything that \$3.30°, "There that, it visition to the clothe for transit, was didn't change anything that \$3.30°, "There that, it was a final for the for two blooks, there." \$3.30°, "There is also. It has the maybe fines to also a very large substraction, because we are not visitioning the mode."	
	Experience and software township influence adherence to software configuration away general results	IASAP. "I) Yes, And fram, in the company leads a, we are weating with African, and there, it is any behalf, but I are trying to implement of their them. It all different, as this bit, one tring or another. Every company has been as the second of a region of their property. That's styl test should be a recommendation of their property. That's styl test should be a recommendation of the deep with the second of the secon	\$3.1P1. Year, which is an academic environment, I can't charge like in the corporate environment, right?"	55.6F1 "Taking uyan pan, yar." S1-6F1 "Net 100", bil tend i swar.			
L				S1-5-P4: "I had to reread it a little more, imagine the scenario."	1	Į.	

	A.1						
Ingrid	Cons		S2-1-D4: "We ristr't use it because we distr't make it excitable either. there was no starse or	in the second se	#	Quotations GF2	
Branching model incompatibility with savily or explanatory photos	Brenching model is not suitable for early stage of project		E.3.P.4. "Ye diff) use the because we distill make a resultable either, flow was not stage on men, flower was no regulated her would be the marks a was beautiful and development and experiment." ES-1-8-1" was beautiful processing making syndrop qualitable; SS-1-8-1. The beautiful limit or beautiful make a world blow to sony about flower beings, studyed as last had no propriet involved on the propose. If had no less does a sense of beings. SS-2-8-11. These suggests that this facilitation should be proport some to the notion and the first first beat time now. Some suggests that this facilitation should be proport some to the notion in the form the superimental power norms.		Set-F2-1 think that, maybe, we with parting a little bit, now in the beginning, mainly, because it is what I said, these are things that we just brown't done, you know the write not a the eight less to do them yet, the faut. Whey beller or, we will also be you be better around."	\$1.2.P2: "The thing is, we don't have a homologistion environment.", \$1.2.P2: "One directopment is still kind of "fair" have in directop, we still don't. There's nothing in the homologistion branch, and I think flush selly it also, no If heart come up yet, these conversations hewest come up.";	S1-12-P2 'Y disk that the last that we gift it into two repositories is very much past of the propositioning, its emp clinif reven. Strain propositioning, its emp clinif reven. The straining will be a reposition to even confit, the first. So, busides being as Al scenario that a straining virtualitie, it is a scenario where we are experiented previously different proposable. The same of our throw exactly what to use So it is more variented than commut. I think that is "The moment we have a popular of everything win's girdly to diff, then might we can
			contributions, but finish furtion we start working on the product fault and this starts to make the contribution of the contr		\$6.167. We finde to, too became as we, we said, was are very much in. In experimentation, So, as laid in the first [Sport of his two much contained with versioning But now, expensivly since we are working on the service, we will have more question."	23.19.2 Valid files this supportion unities because I finish we still don't. we'll not even array, either, doubt the frings we want by purious. 23.39.2 19 and the ris a more closed sciences, yes. If 3 just that, mally, the moment may not be very throuted. 23.39.2 Valid files that it for now. For the moment that we \$1.1.0.P3. Year we make these	"The moment we have a pipilized of employing with gainty to 6, the mighele set can be the gloughth or a single equation year of consecuting a they are. But I first the data to the moment of the project, we also have some of the distruct \$1.6.1-\$2.72 that the first on a more controller control in stronk, because a levely their half or corner scored to very.—It way of filtered, this that." and changes to the tom experiment in the project." In most the
	Davenburg model is not suitable for explicatory or rolled expormentation Concern select sociality of the bosoning model	SS-1.a PF1. "Yoller you do an experiment that is very out of the ordinary, you will did it in All Equationence. But fail is say on delivered a Y1 of the MOP. For some reason, we need to do a Y0. Could You sheet. It is experiment to the fail. It is a proper fail. Such fails.	\$23.164 Y Broy decids to do an experience supplier with the service, Notice & Thank & and what his continued by all the Notice of the service flow of the first which has continued to the service flow of the first which has continued to the service flow of the first which has continued to the service flow of the first which has continued to the service flow of the		S4-1-72 Yes. I Shirk as, disc. because as we we said, we see very mich h in experimentation. By, set lauf at the later as the second property of the secon		\$3.1.20 °C. The server in the secretic chart he stops an person are very created, which we place the server is the secretic chart he server is not all warm to receive the secretic chart he secretic chart he secretic chart he secretic chart he secretic chart has a secretic chart he secretic chart has a
	Curronn shoot privacy and security privines when varing services externed for data strongs	S1.14 A ⁴ Vision between confirm profession, which his, When are we going control five. There are we going the section in models diseased despit, All-the describt here. It describ have be one stockes, like, b In weares his model. What is more used on A is Hagging five. In a finite here private in the Golde Market in more diseased, b.C. fi.— Township, it was hard off. For old controlled diseased which the valid bis used, whether it's safe to are to strong the house in the old and whether this will be used, whether it's safe to are to strong the house it not not from the house it not not from the house it not not the profession are true of the diseased that of which the visit of the safe is a single diseased that of the safe is also and the safe in the safe i					
	Concern about challenges in using the branching model		S2-3-P1: "Yes, but I know the challenges that lie shead, you know? So, I think that if the				
	Use of the branching model depands on learn adoption		project is willing to deal with that, let's move forward." \$2-1-P1: 'We have to see how the team will receive this, it's very department on the learn. A learn con embrace it or the guy can say, 'yeah I don't clear'. And then what are we going to do, you understand?"	S1-2P1: "Man, everyfring you're saying there makes bold sense. The question is whether it will be respected." S1-2P1: "have concerns about the motivational part." S1-2P1: "have for write code, do what you're laiking about fees, it is what I already do in my day to day life." S1-2P1: "So, I sae the leve Tie going to do the same thing that I do, which is basically review code, goin, enterty, discount."			
Concerns allow technical and human techns for saloping to branching model	Opposes infrastructure in a binding factor for some activities related to the branching consider.	\$1.1.6.1° La dise segement You will even even your costs. Your states Yes. The result of processing of the control of the cost of the c			Sh.470. I Stale. I Shak one Shing is that its easier in his to people.		
Hierarchical structure in technical decision making	Discussion on Al model approval with team leaders Increased serionly for review on more stable branches		53.1-Pt. Will I wasted publishing on man? If probably have to restrict. The group to be an ing pit from a med more permission from. That I have today restrict. The group to the service of the propriate from the propriate con many min steps. That I have the mediate is:	\$1-2-P4 "Just increasing the servicity level from develop to stage, stage to main It makes	same leaders. I don't how if this is a discussion that is worth extending to all developers, as: I block that is, bit in not something that we have it very well defined, too, no."		
			That's how the market is. \$2-2-P1: "No decision was made unlaterally. All of them were				
Team collaboration and engagement	Decision-making is always carried out as a team Team commitment to reading documentation		shiried, there were people and gave their opinion, there were people who didn't, but it was always a team effort.*	S1-2-P1: "I think the acceptance orberis there is the team's understanding." S1-2-P4: "So really, this is a team understanding."		S1-2-P2: "Naturally we look a lot at metrics related to the model itself"	\$1-1.a-P3: 1 think everyone on the IA team read it because we had a day where we just sat down to go over the document."