

# PROJECT CHARTER

TEAM BLUE PANDA

## **PROJECT CHARTER**

Our Project Charter provides a formal description of the MVP and the associated strategy that will aid in the establishment of the project's foundation, including objectives, key milestones, success metrics, and project requirements. The charter will aid in the development of more detailed project specifications.

1. Genera	l Project	t Information													
Project N		Spot-Ha	te												
Problem		y: Hate spe There are content i about ep	ech is harmful to pe e currently no podca s released. As it star isode content in hop crease awareness of	st or au ids, liste oes that	le of marginalized identities. Podcasts can often be vehicles for this harmful rhetoric. or audio recording platforms that proactively detect and flag hate speech before s, listeners come across instances of hate speech without warning and report concerns that some action is taken. Hate speech detection prior to the release of an episode armful language in creators and prevent listeners from consuming content they might										
Value Pro	position	: Spot-Ha	te, Anchor's proprie		e speech detection featu										
					g podcast creators (anch alized content for their a			mniga	ite possible nate speech						
2. Project	Team (F	Blue Pandas)													
Roles:	Produ	ct Manager	Product Owner	P	Project Manager Scrum Master Designer										
Name:	Joy	Gassama	Nakul Sarwate		Sanghita Datta		Manthan Mehta		Ansh Shah						
3. Risks				4.	Assumptions										
transform the ML m Business: in model of moderation	ed, it can odel in de Despite developm in results	seriously jeopar evelopment. the technical tea tent and its failu may result in ad	properly cleaned and dize the accuracy of m's expertise, a delare to replicate vertisers refusing to	f M he y Bu cre ex	Technology: The existing data allows the engineering team to start developing the ML model to detect hate speech. The consultants have the technological know-how to create the necessary ML model that auto-detects at a rapid pace.  Business: The analytics team anticipates a 32% increase in the monthly podcast creation rate once the speech detection feature is implemented. Advertisers expressed interest in the potential feature and agreed to a 12% increase in ad fees										
Customer	s: There e of the n	ew feature will f	interface and over all short of custome against the creators	all Cu	following implementation.  Customers: Podcast creators, advertisers, and audiences are concerned about the impact their podcast is having and the possibility of an outrage if there are elements that are harmful to certain segments of society.										
5. Key Su	ccess Me	trics		6.	6. Budget Estimation										
a. Increa	sed User	Retention (%)			Total estimated- Fixed Cost: 962,400 \$ Variable Cost: 32,200 \$										
b. Enhai	nced Plat	form-User Enga	gement (%)	— Es	Estimated time:- 28 weeks.										
c. Increased Market Share (%)					Direct Costs: Human Capital (Team Members, Data Consultants, Project Manager etc.), Hardware, Software										
d. Hate	speech de	etection accurac	y score	,	Indirect Costs: Maintainance and Support, Marketing Promotions, Reserves										
e. % red offens		episodes tagged	'Potentially		Total Cost (Fixed/Variable): Headcount of Resources*Total Fixed/Variable Cost										
f. Emple	oyee satis	sfaction score		(p	(per unit, per hour)*days per week*no. of weeks*working hours  Total Cost = Fixed + Variable = 994,600 \$										
7. In-scop	e			8.	Out of scope										
analy	sis.		requirement gather Present Value (NPV		enough for release to better meet the	e, it v evol	vill need to be iterated ving needs of users.	l upon	he initial MVP is solid to optimize the feature						
Feature learning langure	ng engine age proce	pment: Dedicate eers to build an A	ed team of machine AI model for natura codel training.		<ul> <li>Budget: The financial resources that can be dedicated to rolling out this feature are limited.</li> <li>Customization: Users should be able to provide greater context about the content of their show to enhance their experience with this feature, as some subject matter may center on marginalized communities and</li> </ul>										
hate o     Front-	ontent m end UI d	anually. evelopment for	el of moderators to i web applications. lio data protection.	dentify	<ul> <li>wrongfully be flagged.</li> <li>Technical Debt: As this is the initial iteration of this feature, related technical debt does not yet exist</li> <li>Marketing: This feature requires a marketing strategy to increase</li> </ul>										
<ul> <li>Post la docur</li> <li>Applie feedb</li> </ul>	aunch pro nentation cation su ack.	oduct maintenan 1 handover to sta pport for trouble	ce, a ccuracy enhanc		Mobile Application Compatibility: Though most users primarily record										
9. Project															
		ctober 2022			Completion Date: 15	th Ma									
Milestone	_	1	2		3		4		5						
Description	n	User Interviews and Stakeholde Identification		ation	Data Modelling, Desig and Development	'n	Beta Testing, Accura Enhancements and Debugging	ıcy	Deployment, Launch and Support						
Time D			·				71								

9 weeks

4 weeks

7 weeks

4 weeks

Time Required

4 weeks

## **BUY VS BUILD ANALYSIS**

Anchor underwent a buy and build analysis, and based on Spotify's existing technical and resource prowess, the decision to buy, build, or even a combination of the two was made.

Criteria	Rank	Weight	Buy vs Build	Impact on size						
Data	1	20%	3 1 5 6 Hybrid	Data required to train the ML models needs to be fetched from spotify's historical records as well as outsourced from repositories storing hate speeches, which will require huge amount of time and resources.						
Moderation	2	20%	Buy	It will take a lot of analysis and research to choose the right panel of moderators for manually flagging hate speech in the early MVP stages. This component will be outsourced to avoid bias.						
Design	3	15%	Build	To make it a proprietary product for Anchor, the desgining and ideation will be in-house based on the data collected and research done so that it is feasible with the existing solution						
Development	4	15%	Build	Internal software development will take a moderate amount of time and effort, including the training of the ML algorithm development of the web application.						
Testing	5	15%	Buy	Testing will be outsourced to vendors because it will be a more exhausting and intensive procedure requiring testing of both the human moderation and the automated ML model.						
Support & Maintenance	6	10%	Hybrid	The vendor should have complete ownership of moderation, so this component will not be in-house, and the ML algorithm will be maintained in-house.						
Customer Service	7	5%	Build	Consistent, quality customer service helps retain customers. In order to maintain tight control over the standard of customer service, Anchor will train and hire customer service agents in-house.						

#### **PHASE SCOPING**

After the Buy vs. Build analysis was completed, 5 phases for the feature development process were devised, providing an in-depth view of the scope criteria from feature conception to feature release

	Phase	Title	Task Description H		Scope (weeks)	Dependencies	Risk level
Phase-I	Project Conception	Research	Reasearch about hate speech ML modeling, data set creation, continous training methodology	3	1	ML platform	Low: Only a limited number of resources are required, and the
띺		Projections	Projecting usage of the new feature	2	2	User Research	majority of the data is already available.
Ħ	Declara Defectation and	Project Charter	Describes the product, service and results to be accomplished	2	1	Product Management	Low - Medium: This phase
Phase-II	Project Definition and Planning	Scope and Goal Setting	Defining the different phases, milestones and timelines	he different phases, milestones and timelines 3 2			requires slightly more resources as well as cross-collaboration between teams.
		Communication Plan	Communicating with different stakeholders	3	2	Product Management	occir counts.
		Detailed feature design	In-detail design for every component involved	2	1	UX and Engineering	Medium - High: Concrete labor
ļ		Speech to text improvements	Improving the accuracy of the ML models	3	2	Engineering, ML platform	and investment is shared cross functionally among teams. Non-conformities may arise.
Phase-III	Design and Development	Hate detection models training	Training the ML models for hate speech	4	4	ML platform, Engineering	Potential bugs or errors may materialize and delay release.
		Hate detection models integration	Integrating Hate detection models with the Platform			ML platform, Engineering	,
Ņ		Integration testing	Beta and E2E testing for the feature	3	2	Engineering support	
Phase-IV	Testing	Performance Monitoring	Monitoring the performance of the new feature deployed		2	Engineering support	Medium - High: Identifying and resolving bugs is critical for a smooth feature release.
		MVP release	Launching the feature	3	2	Engineering support, UI/UX	History and a second of
Phase-V	Release & Feature Improvements	Model training improvements	Incorporating feedbacks and fixing bugs	4	3	Engineering	High: More resources are needed for a successful feature release, scaling the feature for a growing
_ £	- Improvements	Additional monitoring	Based on the MVP release learning, put additional matrix and monitoring	3	2	Engineering support	user base, and working towards improving the feature.

#### **BUDGET**

The estimated budget below represents the total cost of all activities and milestones that the project will complete. In short, it is the total amount of money required to complete the project that must be approved by all stakeholders.

Category	Items	Count	Fixed Cost/Unit/hr (\$)	Maintenance cost/Unit/yr	Total fix cost (\$)	Total variable cost (\$)/yr
	Project Manager	1	60.00	-	187,200.00	
	Project Team Member	5	50.00	-	780,000.00	-
Headcount	Contaractor (Data Consultant in-house)	3	40.00	_	374,400.00	_
	Moderator	5	30.00	-	468,000.00	-
Hardware	Physical Server Costs	3	-	1,500.00	-	4,500.00
Software	Licensed Software (ML)	1	-	1,200.00	-	1,200.00
	Platform License (IDE)	3	-	500.00	-	1,500.00
	Firewall	1	-	5,000.00	-	5,000.00
	Prototyping Software (Eg: Figma)	3	100.00	-	3,000.00	-
W-1-4	Training cost (code debugging, documentation)	2	100.00	-	2,000.00	-
Maintenance & Support	Maintenance cost (user feedback, server maintenance)	-	-	20,000.00	-	20,000.00
Made die d'Description	Marketing	-	-	-	50,000.00	-
Marketing/Promotion	Promotions	-	-	-	25,000.00	-
Reserves	Buffer	-	-	-	10000	-
Total (\$)					932,400.00	32,200.00

# **GANTT CHART**

Based on the scope and phases previously discussed, the Gantt chart below provides a possible week by week schedule to achieve each milestone and keep the project on track.

	PROJECT TITLE	Detection	CO	MPA		IMAI	_										1	M	1	4	n	cl	10	or	R			
	PROJECT MANAGER	Terri Eccl	Eccles DATE 10/21/2022								MAnchor® by Spotify																	
						I	PHAS	E O	NE .	F	HAS	E TV	VO				PH	ASE	THU	REE				1	PHAS	E FO	OUR	
WBS NUMBER	TASK TITLE	START DATE	DUE DATE	DURATION (weeks)	PCT OF TASK COMPLETE	1	2 W	eek 3	4 5	6		eek 8	9	12	13	14	15	We		18	19	20	22	23	_	Veek 25	25 2	26
1	Project Conception																											
1.1	Project Charter	12/5/22	12/16/22	2	0%					Т																		
1.2	Research	12/19/22	12/26/22	1	0%	П																						
1.3	Projections	12/19/22	12/30/22	2	0%																							
2	Project Definition and Planning																											
2.1	Charter revisions	1/2/23	1/6/23	1	0%																							
2.2	Scope and Goal Setting	1/9/23	1/20/23	2	0%																							
2.3	Communication Plan	1/20/23	2/3/23	2	0%																							
3	Design and Development																											
3.1	Detailed feature design	2/6/23	2/10/23	1	0%																							
3.2	Speech to text improvements	2/13/23	2/27/23	2	0%																							
3.3	Hate detection models training	2/13/23	3/10/23	4	0%																							
3.4	Hate detection models integration	3/13/23	3/27/23	2	0%																							
4	Testing																											
4.1	Integration testing	3/27/23	4/7/23	2	0%					Т																		
4.2	Performance Monitoring	4/3/23	4/14/23	2	0%																							
5	Release & Fearture Improvements																											
5.1	MVP release	4/17/23	5/5/23	2	0%																							
5.2	Model training improvements	4/17/23	5/5/23	2	0%																							
5.3	Additional monitoring	4/24/23	5/5/23	2	0%																							