

WE ARE WHAT WE LISTEN TO HOW MORAL VALUES REFLECT ON MUSICAL PREFERENCES

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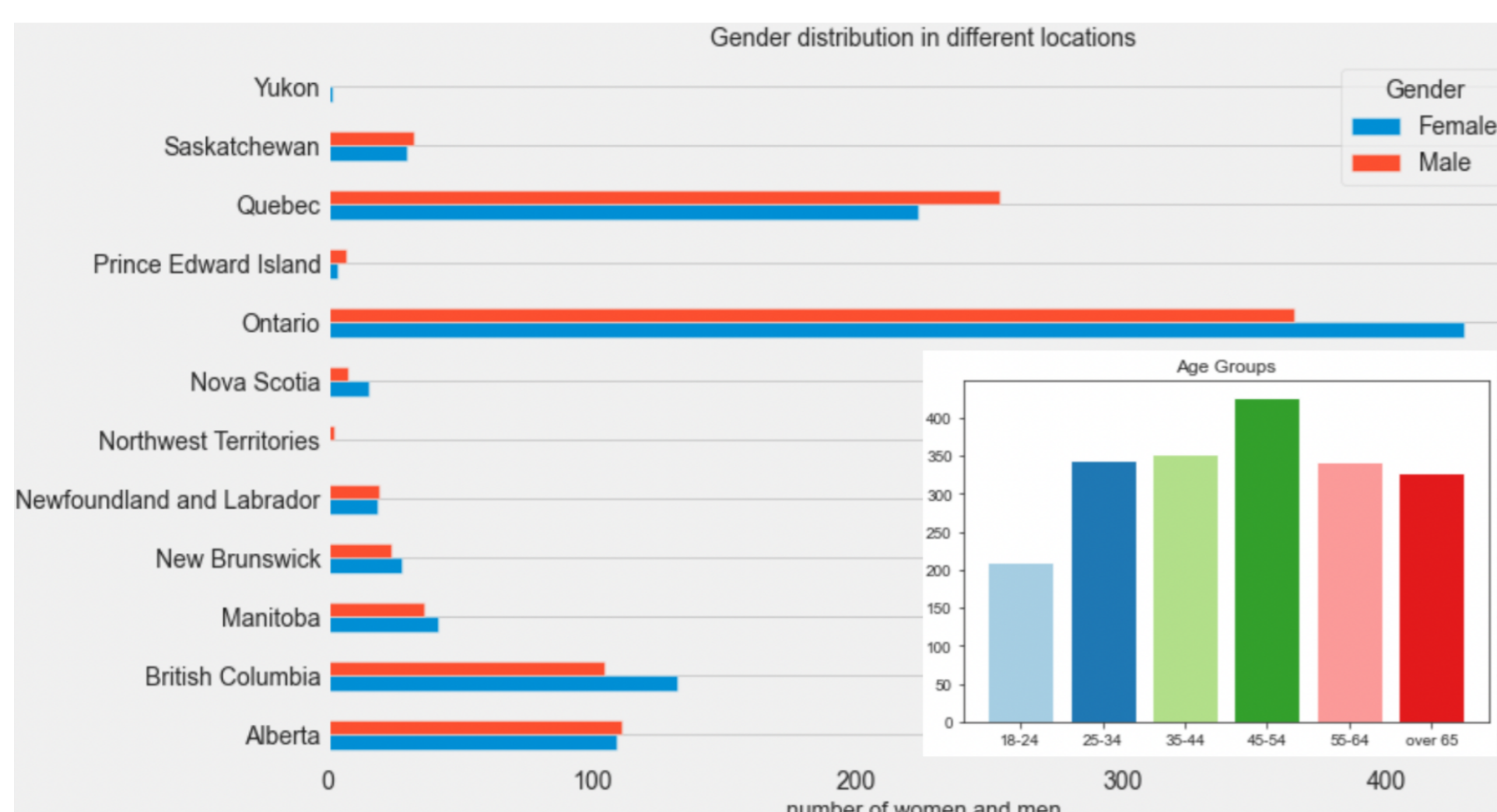
MUSIC AND MORALITY

Henry Wadsworth Longfellow wrote, “*Music is the universal language of mankind.*” Modern research has found converging evidence that people listen to music that reflects their psychological traits, needs and help express emotions, cultures, values and personalities [3, 1]. Here we explore the less attended link between music and moral values [2] based on Moral Foundations Theory [4].

Super classes	MFT	Description
Individualising	Care Fairness	Asserts that basic constructs of society are individuals and focuses on their protection and fair treatment.
Binding	Purity Authority Loyalty	Represent foundations based on respect, leadership and tradition.

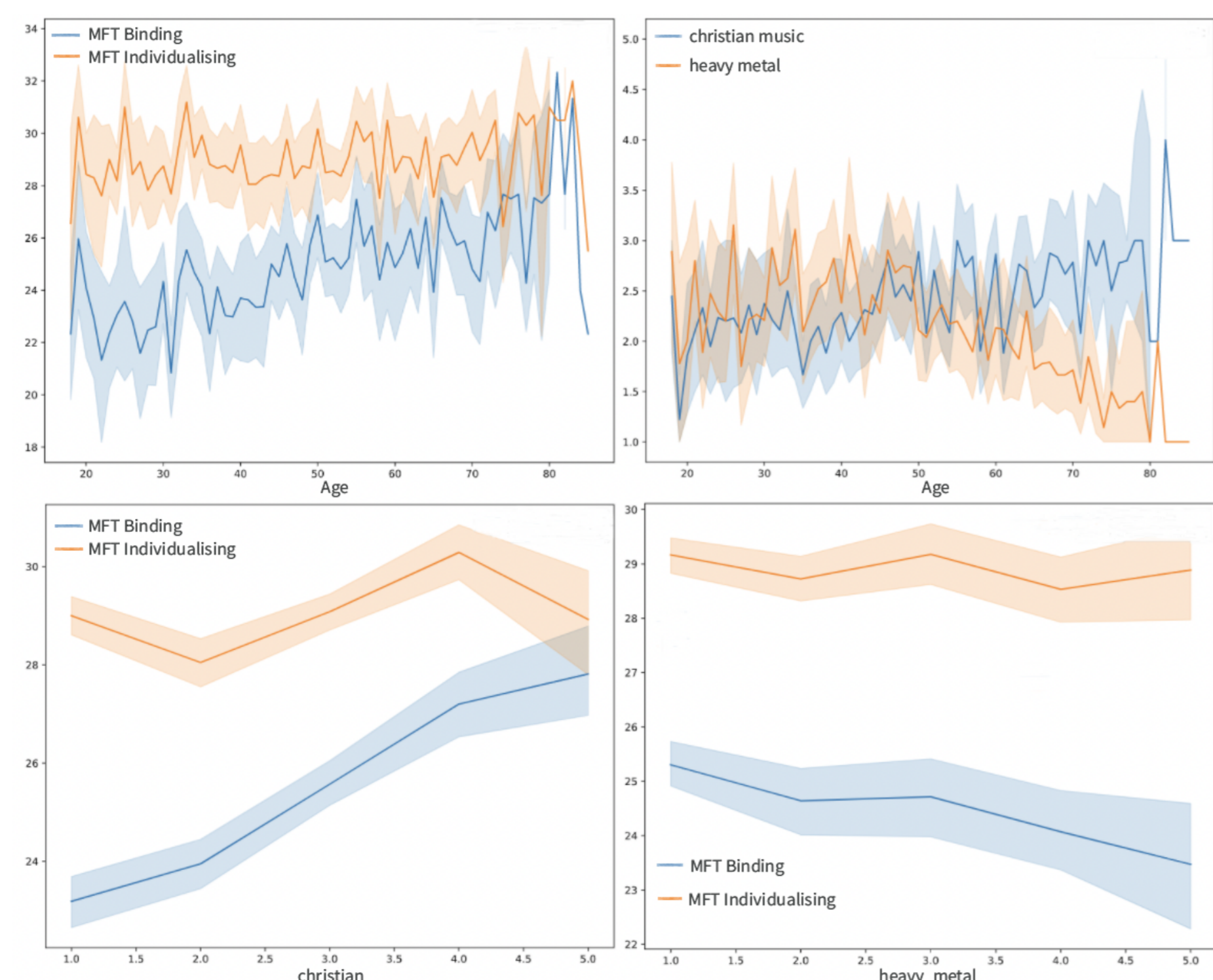
DATA COLLECTION

- Administered online survey with 2,000 participants (51% females) from 12 different regions in Canada.
- Participants' filled in, among other items, music preference and the Moral Foundations Questionnaire [4].
- They scored preferences on 13 genres: *alternative pop/rock, christian, classical, country, folk, heavy metal, rap/hip-hop, jazz, latin, pop, punk, R&B, and rock.*



CORRELATIONS WITH MORAL TRAITS AND AGE

- Christian music was found positively correlated with Purity ($r = .38$), Authority (.26), and Loyalty (.18), as was country (.21, .2 and .17, respectively).
- Liking punk, on the other hand, showed negative correlations with Purity (-.21) and Authority (-.18).

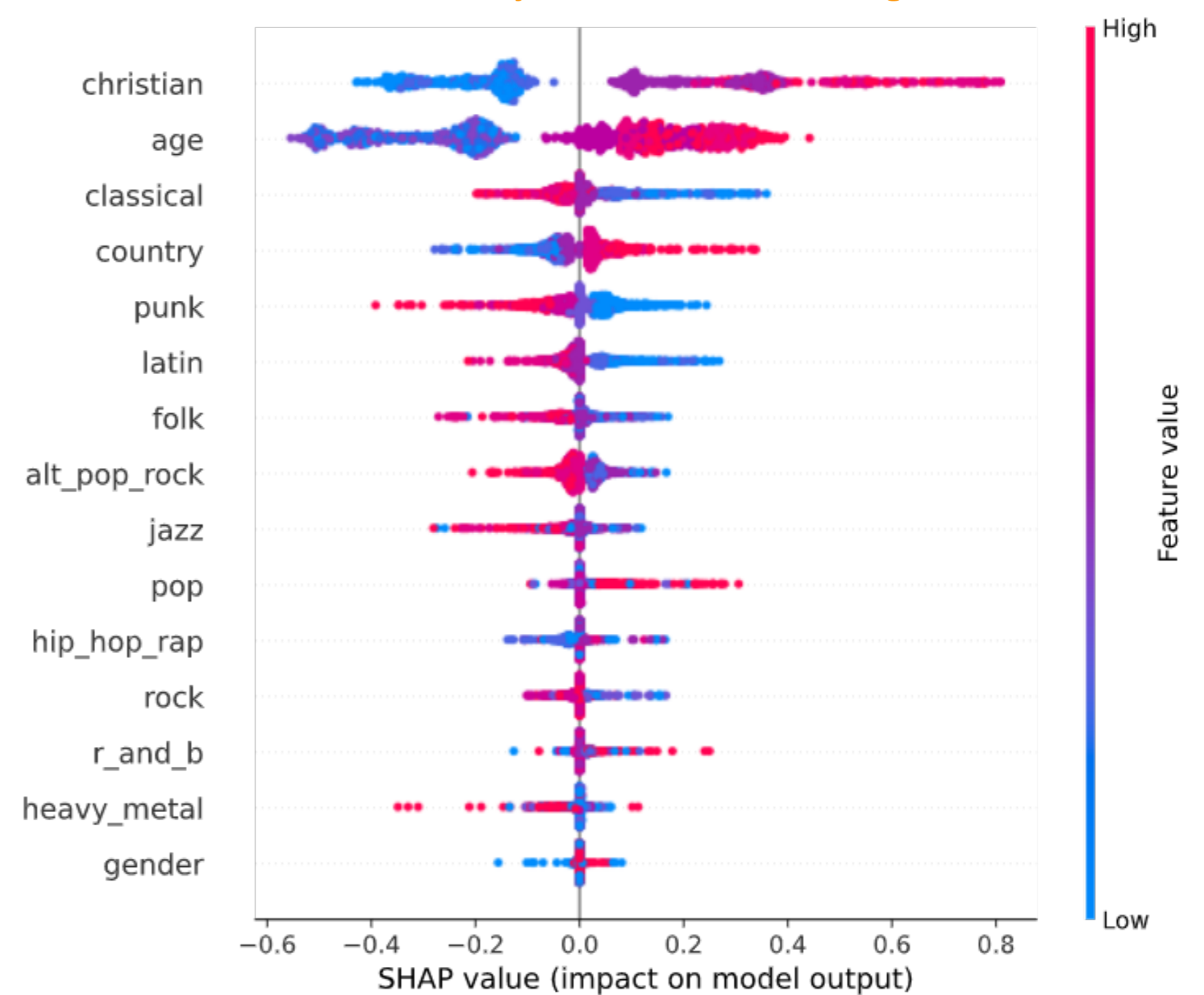


MORAL TRAITS PREDICTION

- We predicted whether a respondent belonged to the “low” or “high” end of each moral foundation with thresholds at a median value.
- We considered 3 types of predictors: all 13 music genres, 5 latent factors (EFA), & a generalist-specialist (GS) score.
- We used XGBoost with 5-fold cross-validation.

Music Preference and Demographics			
	13 Genres	5 Factors	GS-Score
Care	.62 (3.2)	.59 (2.1)	.58 (1.6)
Fairness	.58 (2.5)	.54 (1.5)	.51 (2.6)
Authority	.64 (1.6)	.62 (1.2)	.58 (2.1)
Purity	.71 (3.0)	.68 (3.0)	.65 (2.5)
Loyalty	.67 (3.5)	.64 (3.3)	.59 (0.8)
Individ.	.59 (2.4)	.56 (1.7)	.55 (1.7)
Binding	.71 (3.2)	.68 (2.4)	.63 (1.4)

SHAP Analysis for MFT Binding



In the future we will delve deeper into the relation between music, morality, and universal human values, using also passively collected digital traits of music listening behaviours.

REFERENCES

- Ian Anderson et al. “Just the Way You Are”: Linking Music Listening on Spotify and Personality”. In: *Social Psychological and Personality Science* (2020). doi: 10.1177/1948550620923228.
- Alessandro Ansani, Francesca D’Errico, and Isabella Poggi. “You will be judged by the music I hear”: A study on the influence of music on moral judgement”. In: *Web Intelligence* 17 (2019), pp. 53–62.
- Antonis Gardikiotis and Alexandros Baltzis. “Rock music for myself and justice to the world!”: Musical identity, values, and music preferences”. In: *Psychology of Music* 2 (2012), pp. 143–163.
- Jesse Graham et al. “Mapping the moral domain.”. In: *Journal of personality and social psychology* 101.2 (Aug. 2011), pp. 366–85. ISSN: 1939-1315. doi: 10.1037/a0021847.

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