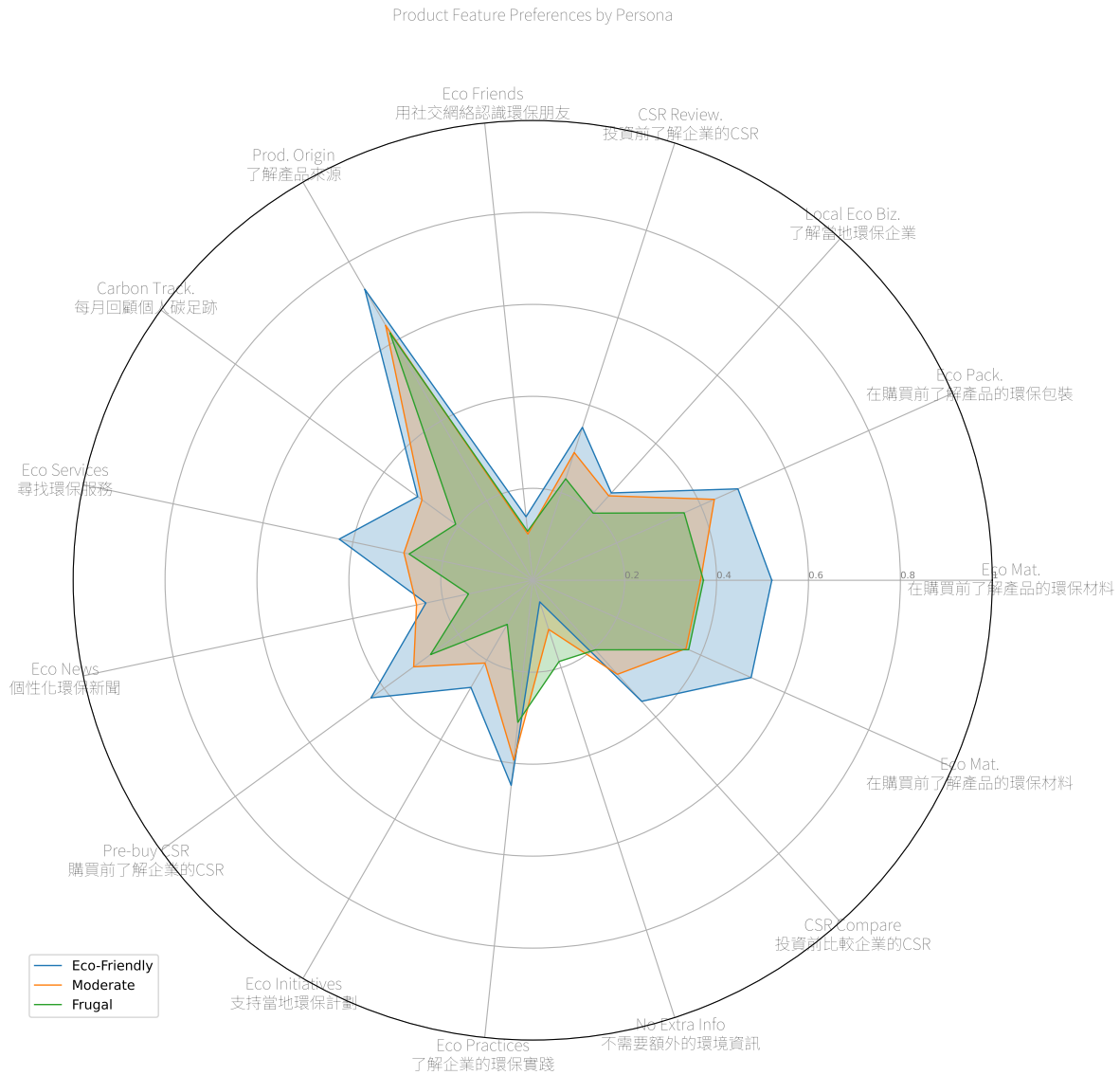


AI Companion

AI Companion

Likert-Based Clustering

AI-assistant feature choices per Likert-based Personas



Feature-Based Clustering

Clustering students based on AI-assistant feature choices

```
Init: initializing centroids
Init: initializing clusters
Starting iterations...
Run 1, iteration: 1/100, moves: 89, cost: 1952.0
Init: initializing centroids
```

Init: initializing clusters
 Starting iterations...
 Run 2, iteration: 1/100, moves: 151, cost: 1982.0
 Run 2, iteration: 2/100, moves: 58, cost: 1985.0
 Init: initializing centroids
 Init: initializing clusters
 Starting iterations...
 Run 3, iteration: 1/100, moves: 96, cost: 2050.0
 Run 3, iteration: 2/100, moves: 14, cost: 2050.0
 Init: initializing centroids
 Init: initializing clusters
 Starting iterations...
 Run 4, iteration: 1/100, moves: 79, cost: 2001.0
 Run 4, iteration: 2/100, moves: 44, cost: 2001.0
 Init: initializing centroids
 Init: initializing clusters
 Starting iterations...
 Run 5, iteration: 1/100, moves: 135, cost: 2263.0
 Best run was number 1

{0:	Submission ID	Submitted at	/	\
0	OA4NdR	2023-10-14 08:59:10		
1	VZPeMJ	2023-10-15 05:30:06		
2	zKMV58	2023-10-15 06:52:36		
3	aB22jX	2023-10-15 11:41:25		
4	1r9lRM	2023-10-15 13:02:37		
..
676	AlY9PD	2023-10-30 16:17:38		
677	24d9gV	2023-10-31 08:55:54		
678	vN8NMv	2023-10-31 13:46:38		
679	blQd81	2023-11-01 01:04:55		
680	6dBZke	2023-11-01 15:14:52		
			/	/
0	National Tsing Hua University (NTHU)		/	\
1	Soochow University (SCU)			
2	Ching Kuo Institute of Management an...			
3	Tunghai University (THU)			
4	National Yunlin University of Science...			
..	
676	Feng Chia University (FCU)			
677	National Cheng Kung University (NCKU)			

678 Fu Jen Catholic University (FJU)
 679 Ming Chuan University (MCU)
 680 Southern Taiwan University of Science a...

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3				19
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677				23
678				19
679				21
680				21

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3						2 ...	2
4						2 ...	3
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676						2 ...	3
677						3 ...	3
678						2 ...	4
679						1 ...	2
680						3 ...	3

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676		2		3	3
677		2		4	4
678		3		4	3
679		2		4	2
680		4		4	3

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4				NaN	NaN
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676		NaN		NaN	NaN
677		NaN		NaN	NaN
678		NaN			
679		NaN		NaN	NaN
680		NaN			

	/ MBTI	Cluster	
0		NaN	0
1		NaN	0
2		INTJ	0
3		INTP	0
4		ENFJ	0
..	
676		NaN	0
677	ISTJ,		0
678		ISFJ	0
679		NaN	0
680		INTJ	0

[511 rows x 85 columns],

1:	Submission ID	Submitted at	/	\
5	BGxMaQ	2023-10-16 01:58:04		
8	PAzab0	2023-10-16 02:33:40		
12	1rVWKW	2023-10-16 04:23:06		
13	24PjJA	2023-10-16 04:28:10		
26	0A5vZK	2023-10-17 04:44:52		
..
629	VZqZMJ	2023-10-26 18:28:22		
633	YZe6X0	2023-10-27 03:54:20		
639	YZe1Xd	2023-10-27 04:16:53		
641	KM09EK	2023-10-27 04:19:18		
643	oAgJRP	2023-10-27 04:23:26		

	/	/	/	\
5	National Cheng Kung University (NCKU)			
8	National Cheng Kung University (NCKU)			

12	National Formosa University (NFU)
13	Tainan University of Technology (TUT)
26	National Cheng Kung University (NCKU)
..
629	Fu Jen Catholic University (FJU)
633	National University of Tainan (NUTN)
639	National University of Tainan (NUTN)
641	National University of Tainan (NUTN)
643	National University of Tainan (NUTN)

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5				25
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12						1 ...	2
13						1 ...	5
26						3 ...	4
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629						1 ...	3
633						3 ...	4
639						2 ...	3
641						2 ...	4
643						2 ...	2

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5		4		4
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12		3		2
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629	3	4	4
633	3	4	4
639	3	5	3
641	4	5	5
643	4	5	3

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641				
643				NaN

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5				NaN	NaN	ENFP	1
8						NaN	1
12				NaN	NaN	NaN	1
13						INFJ	1
26				NaN	NaN	NaN	1
..			
629				NaN	INFP	1	
633				NaN	NaN	INFJ	1
639				NaN	NaN	INTP	1
641				NaN		NaN	1
643				NaN	NaN	ENFP	1

[75 rows x 85 columns],

2:	Submission ID	Submitted at	/	\
9	5dZyP6	2023-10-16 02:48:33		
11	42r4Bk	2023-10-16 03:48:25		
25	qbA605	2023-10-17 04:44:39		
45	DVNLyN	2023-10-17 16:19:07		
46	OAA1Vk	2023-10-17 17:23:46		
..
658	5dQZGb	2023-10-27 08:49:04		
659	9daDyK	2023-10-27 09:19:43		
663	5dQdGv	2023-10-27 10:10:58		

665 jBpW01 2023-10-27 11:05:01
 674 g5pqZP 2023-10-29 17:30:47

		/	/	/	\
9	National Cheng Kung University (NCKU)				
11	National Cheng Kung University (NCKU)				
25	National Cheng Kung University (NCKU)				
45	National Cheng Kung University (NCKU)				
46	National Cheng Kung University (NCKU)				
..		
658	Southern Taiwan University of Science a...				
659	National Cheng Kung University (NCKU)				X
663	Southern Taiwan University of Science a...				
665	National Taiwan University (NTU)				
674	Southern Taiwan University of Science a...				

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9				25
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659				20
663				20
665				26
674				21

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9						1 ...	4
11						2 ...	3
25						2 ...	4
45						2 ...	3
46						1 ...	4
..					
658						3 ...	5
659						3 ...	2
663						3 ...	4
665						1 ...	3
674						2 ...	3

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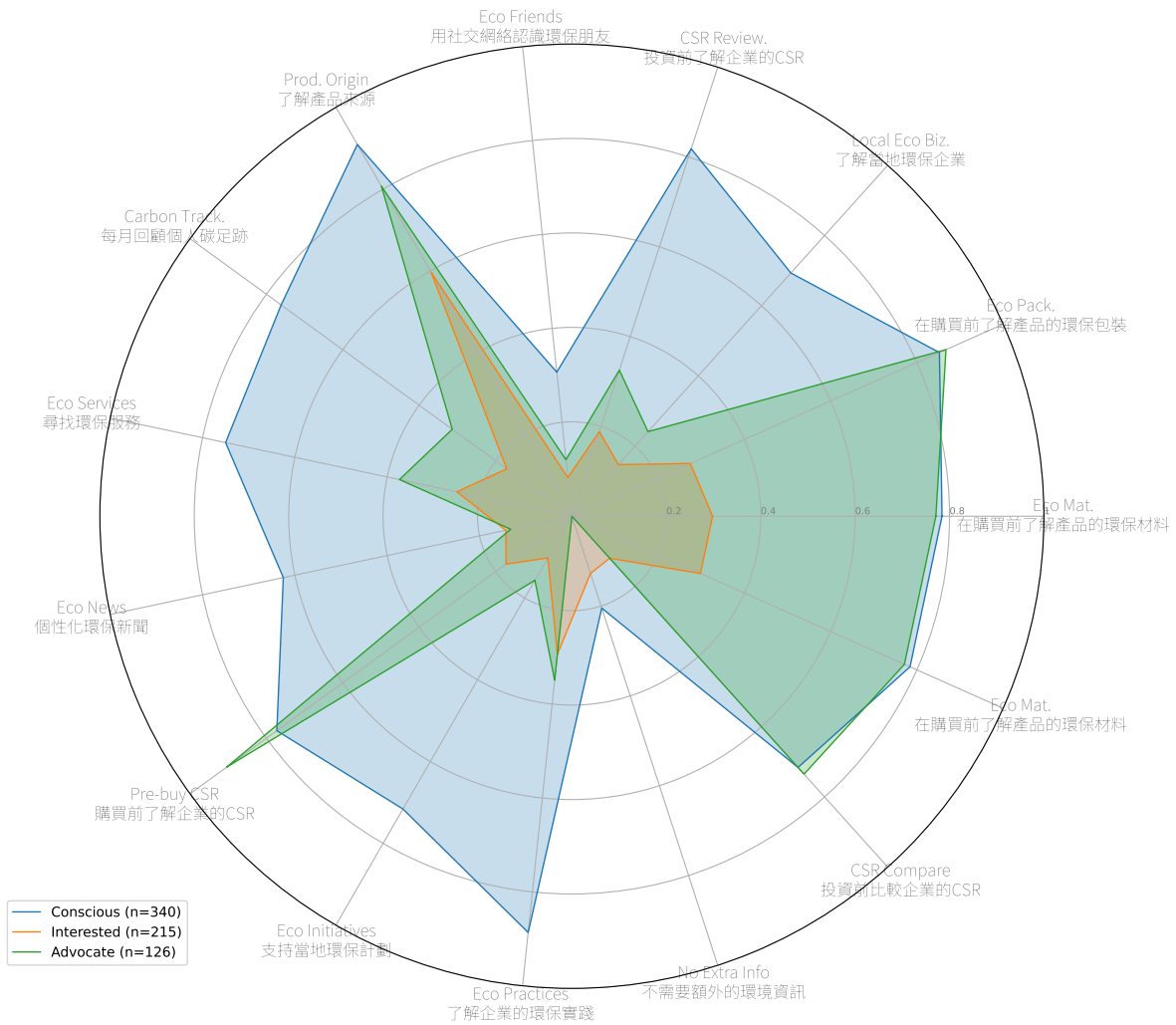
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658				
659				NaN
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665				
674				NaN

```
[95 rows x 85 columns]}
```

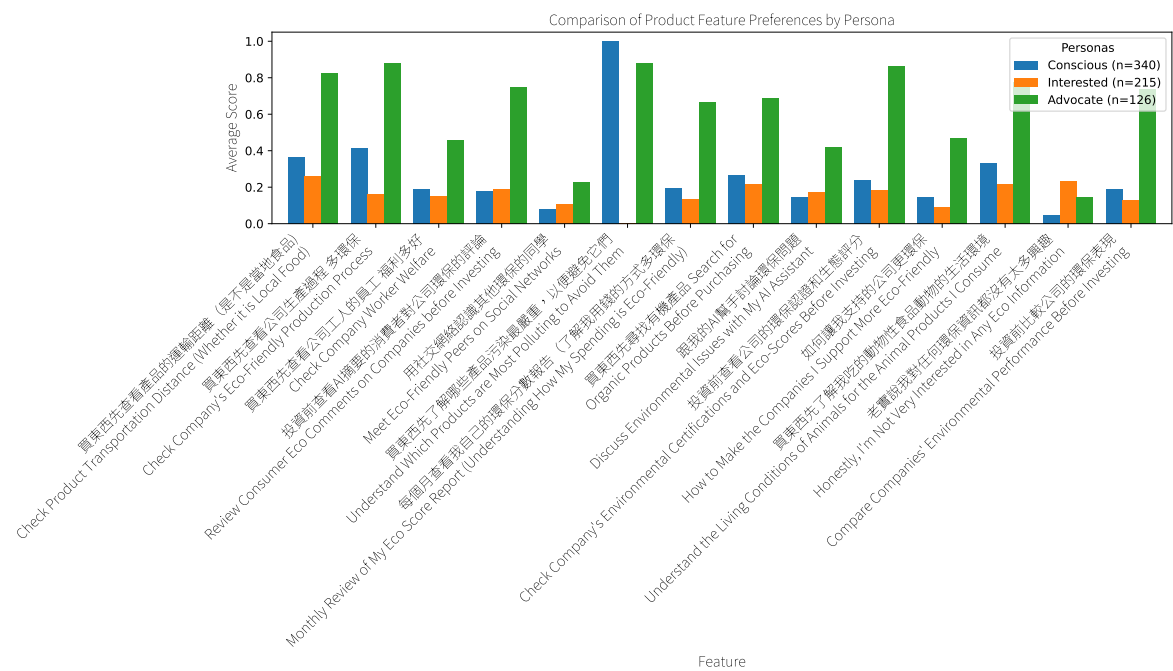
Feature Preferences (Overall)

```
Init: initializing centroids
Init: initializing clusters
Starting iterations...
Run 1, iteration: 1/100, moves: 112, cost: 1941.0
Init: initializing centroids
Init: initializing clusters
Starting iterations...
Run 2, iteration: 1/100, moves: 137, cost: 1952.0
Run 2, iteration: 2/100, moves: 4, cost: 1952.0
Init: initializing centroids
Init: initializing clusters
Starting iterations...
Run 3, iteration: 1/100, moves: 360, cost: 2015.0
Run 3, iteration: 2/100, moves: 23, cost: 2015.0
Init: initializing centroids
Init: initializing clusters
Starting iterations...
Run 4, iteration: 1/100, moves: 126, cost: 2083.0
Run 4, iteration: 2/100, moves: 50, cost: 2083.0
Init: initializing centroids
Init: initializing clusters
Starting iterations...
Run 5, iteration: 1/100, moves: 245, cost: 1995.0
Run 5, iteration: 2/100, moves: 38, cost: 1995.0
Best run was number 1
```

Product Feature Preferences by Persona



Feature Preferences (By Cluster)



Preferred AI Roles (Overall)

