



The Impact of the COVID-19 Pandemic on Education and Psychology

Outcome - AI and data analytics-based study on identifying the underlying factors impacting the quality of education and psychological well-being during the pandemic.

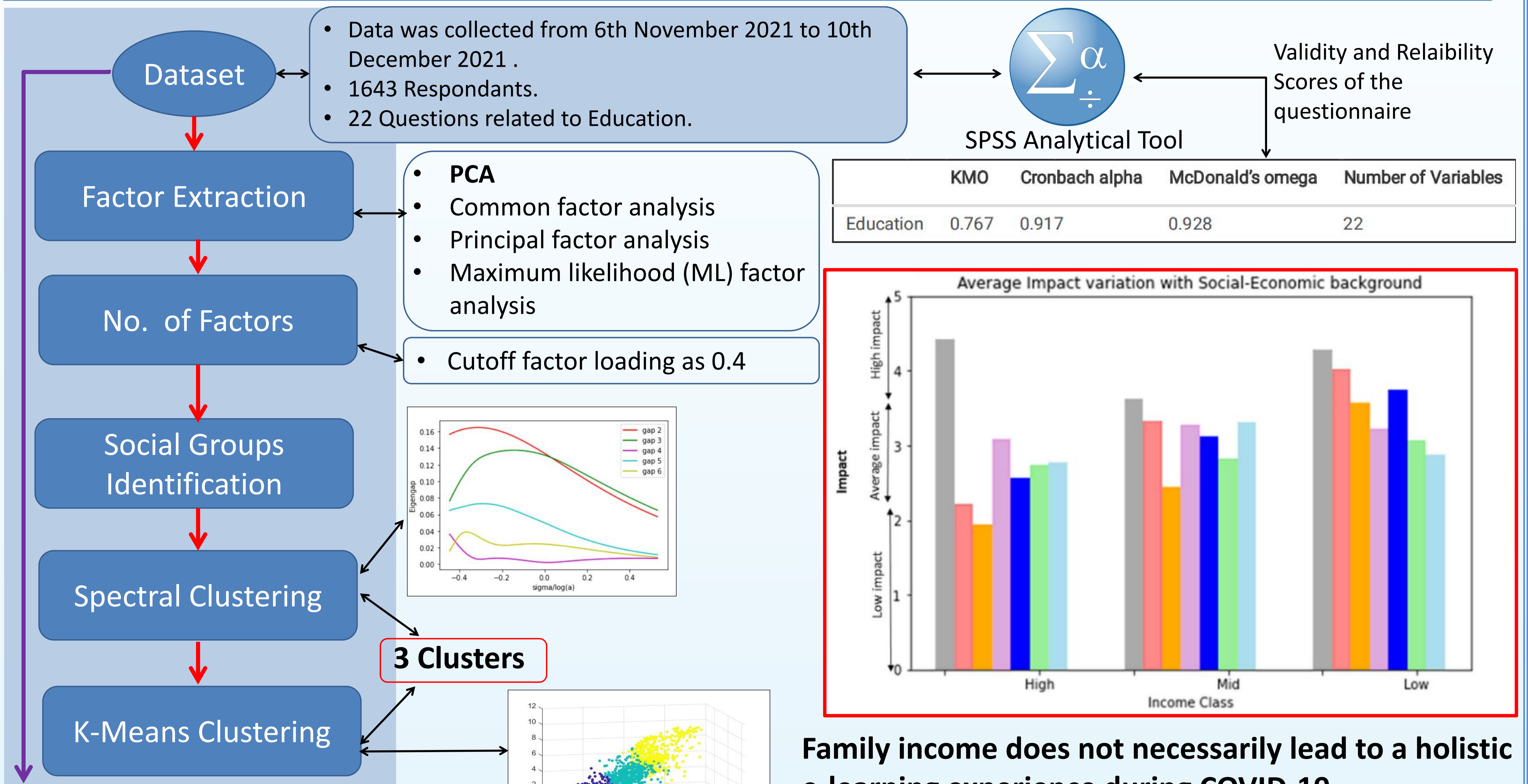
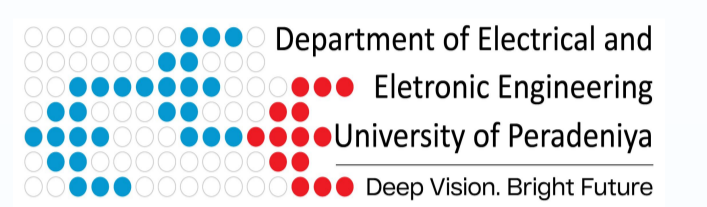
Impact - Enables education and health policymakers to develop informed, data-driven policies for implementing online-hybrid learning models and facilitates cross-sectional studies and impact analyses regarding psychological states during the pandemic.

Team and Collaborators

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RA's and Students

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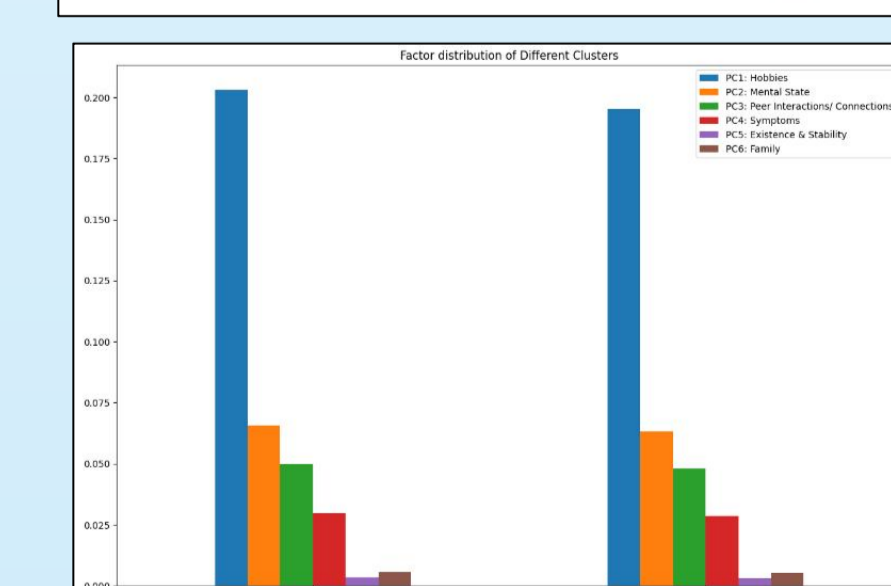
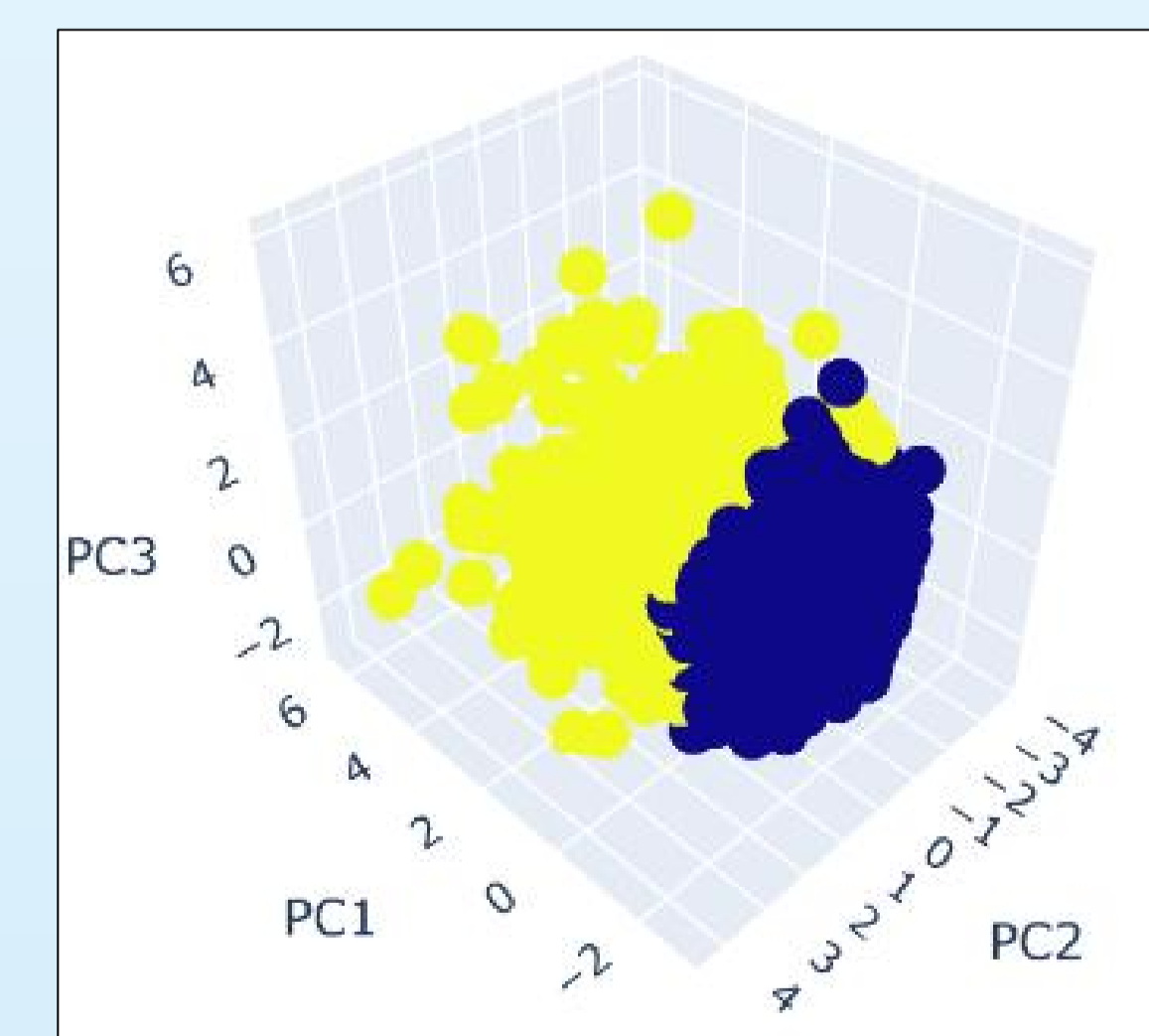


Factor Number	Question	Factor Name
Factor 1	h I miss being with my peers	Socio-cultural and emotional
	j Online education cannot replace the traditional classroom	
	g I miss extra-curricular activities organized in my school/institute	
	i Inability to concentrate on online learning	
	d I feel anxious about schoolwork	
	a I felt lonely	
Factor 2	A1_2h I have peak/off-peak issues?	Resource affordability for online learning
	A1_2c I have device malfunctioning/power outage problems	
	A1_2g I have package limitation problems	
	A1_2f I have financial difficulty to purchase a internet connection	
Factor 3	l I have problems with finding time to study because I have household responsibilities	Household Environment
	m have problems with finding someone who could help me with my studies	
	k I have problems with finding a quiet place to study	
Factor 4	e I felt motivated to study	Self-Motivation
	b I enjoyed learning by myself	
Factor 5	A1_2i I have a fast internet connection to access online education	Network quality and connectivity
	A1_2e I have connectivity issue (signal strength issue)	
Factor 6	A1_2a I have my own device (Smartphone, tablet, laptop etc.) for online education	Device Accessibility and Know-how
	A1_2b I have to share the device among family members	
	A1_2d I have necessary knowledge to operate the devices without a support	
Factor 7	c Teachers/lecturers were available when I needed help (e.g., through virtual office hours, email, chat) compared to period before the pandemic	Teachers' availability and Preparedness
	f My teachers/lecturers were well prepared to provide instruction remotely	

Psychology

The analysis of the educational data has been completed. However, we are currently continuing with the analysis of the psychological data.

Factor Number	Question Code	Question	Factor Name
Factor 01	4D_1_8	Use of Social Media	Hobbies
	4D_1_9	Watching movies, Playing indoor games, Reading	
	4D_1_7	Substance use including alcohol	
Factor 02	4D_1_1	Loneliness	Mental State
	4D_1_2	Emptiness	
Factor 03	4D_2_2	Relationship with neighbors	Peer Interactions / Connections
	4D_1_3	Social connectedness	
Factor 04	4D_2_3	Relationship with office colleagues	Existence and Stability
	4D_1_4	Fear of death	
Factor 05	4D_1_5	Sleep	Symptoms
	4D_1_6	Appetite	
Factor 06	4D_2_1	Relationship with family members	Family



Note: No significant difference between two clusters. Still to be investigated

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