Questionnaire No:

The project on "Artificial Intelligence framework for threat assessment and containment for COVID-19 and future epidemics while mitigating the socioeconomic impact to women, children, and underprivileged groups, Collaboration with International Development Research Centre (IDRC)

University of Peradeniya

Questionnaire for Household Survey in Sri Lanka

This survey will mainly collect the basic socio-economic information from the selected households in Sri Lanka. The main objective of this study is to understand the impacts of socioeconomic, political, cultural and psychological factors relating to COVID-19 situation on identified divers groups and propose Artificial Intelligence Framework based strategies to mitigate the negative impacts.

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Confidentiality of data is guaranteed

1.Identification Information

DIS	District	
DS	Divisional Secretariat Division	
GN	Grama Niladhari Division	
AD_HH	Address of the household/Contact No.	
MC_UC	Name of the MC/UC/PS	
NAME_VI	Name of village	
NAME_ES	Name of Estate (If estate sector only)	
NAME_H_HH	Name of the Head of the household (optional)	
EN_NAME	Enumerator Name and contacts No.	
EN_DATE	Date of Survey	

Pandemic period	Time duration
First wave	20 March 2020 – 30 June 2020
Second wave	01 July 2020 – 14 April 2021
Third wave	15 April 2021 – To date

2. **Information about Households**

Member **(Please circle the respondent)**	Relationship to the head of the household **(2.1)**	Gender **(2.2)**	Age **(2.3)**	Marital Status **(2.4)**	Education Level **(2.5)**	Ethnicity **(2.6)**
1						
2						
3						
4						
5						
6						
7						
8						

Relationship to the head of the household **(2.1)**	Gender **(2.2)**	Marital Status **(2.4)**	Education Level **(2.5)**	Ethnicity **(2.6)**
1-Head of the household 2-Wife/ Husband 3- Son/ Daughter 4- Parent 5- Other relatives 6- Non relatives 7-Other(specify)	1– Female 2-Male	1– Unmarried 2-Married 3-Widowed 4-Divorced 5-Seperated	1-No 2- Pre School 3-Grade1- 5 4-Grade 6 – G.C.E.O/L 5-G.C.E. A/L 6-Diploma 7- Degree 8-Master degree or higher	1– Sinhalese 2–Tamil 3– Muslim 4-Mixed 5- Other

2.7. Details about employment

Member	**2.7.1.** What is your employment?	Employment Status **(2.7.2)**	Employment Sector **(2.7.3)**	Type of Income **(2.7.4)**
1				
2				
3				
4				
5				

Employment Status **(2.7.2)**	Employment Sector **(2.7.3)**	Type of Income **(2.7.4)**
1- Government employee 2- Semi Government employee 3- Private sector employee 4-Estate worker 5-House wife/unpaid family worker 6-Unemployed 7-Self (Specify) 8-Retired 9-Daily wage earner 10-Other(Specify)	1-Health Sector 2-Education Sector 3-Retail Sector 4-Manufacturing Sector 5-Bank Sector 6-Forces 7-Administritive services Sector 8-Apparel Sector 9-Agriculture Sector 10-Other(Specify)	1-Monthly income 2-Daily regular income 3-Daily irregular income 4-Other(Specify)

3. Impact Analysis

3A. Social Impact

3A1. Educational Impact

3A1.1. Change in Educational Pattern (Only consider who are engaging in full time/part time educational work)

Member	**Are you studying in,** **1-Government institute/school** **2-Private institute/school** **3-Semi government institute/school**	**Are you a,** **1-School student** **2-University full time student** **3-Postgraduate full time student** **4-Part time student** **5-Other (Specify)**
1		
2		
3		
4		
5		

Member	How often did you participate in a class in person? **(3A1.1a)**		How often did you participate to a class online? **(3A1.1b)**			How did you feel about your studies in a week compared to a typical week in pre-pandemic period? **(3A1.1c)**			Did you learn something extra during the following periods? 1-Yes 2-No **(3A1.1d)**			What would you prefer more? **(3A1.1e)** 1- In person 2-Online 3-Mix/both together	What is/are the device(s) used for learning? (select all related) **(3A1.1f)**
	Second wave	**Third wave**	**First wave**	**Second wave**	**Third wave**	**First wave**	**Second wave**	**Third wave**	**First wave**	**Second wave**	**Third wave**		
1													
2													
3													
4													
5													

(3A1.1a) and **(3A1.1b)**	How much did you learn each week during pandemic period compared to pre pandemic period (school in person)? **(3A1.1c)**	What is/are the devices used for learning? (select all related) **(3A1.1f)**
1-Never 2-Less often 3-Often 4-More often	1-Less 2-Same 3- More	1-Mobile phone 2-Own laptop 3-Own computer 4-Own tablet 5-Device used by other family members 6-I do not have a device for my studies 7-Providing printed materials 8-Borrowed device from an outsider 9-Other(specify)

Any other information that you need to share with us

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3A1.2. Access to devices and internet connection

Consider the online learning and answer the following

1-Strongly Agree 2-Agree 3-Undecided 4-Disagree 5-Strongly Disagree

Member	I have my own device (Smart phone, tablet, laptop..etc) for online education **(3A1.2a)**	I have to share the device among family members (**3A1.2b**)	I have device malfunctioning/power outage problems (**3A1.2c**)	I have necessary knowledge to operate the devices without a support (**3A1.2d**)	I have connectivity issue (signal strength issue) (**3A1.2e**)	I have financial difficulty to purchase a internet connection (**3A1.2f**)	I have package limitation problems (**3A1.2g**)	I have peak/off peak issues (**3A1.2h**)	I have a fast internet connection to access online education (**3A1.2i**)
1									
2									
3									
4									
5									

3A1.3. Feelings about self-directed learning at home

1-Strongly Agree 2-Agree 3-Undecided 4-Disagree 5-Strongly Disagree

	Member				
	1	2	**3**	4	5
a. I felt lonely					
b. I enjoyed learning by myself					
c. Teachers/lecturers were available when I needed help (eg: through virtual office hours, email, chat) compared to period before pandemic					
d. I feel anxious about school work					
e. I felt motivated to study					
f. My teachers/lecturers were well prepared to provide instruction remotely					
g. I miss extra-curricular activities organized in my school/institute					
h. I miss being with my peers					
i. Inability to concentrate on online learning					
j. Online education cannot replace the traditional class room					
k. I have problems with finding a quiet place to study					
l. I have problems with finding time to study because I have household responsibilities					
m. I have problems with finding someone who could help me with my studies					

Any other information that you need to share with us

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3A2. Health Impact

3A2.1. Consider the pandemic period

Member	Did you attend to your health clinics as usual during the pandemic? (Yes – 1, No – 2, Not applicable-3), If answer is 1 or 3, move to 3A2.1c. If 2 Move to 3A2.1b. (**3A2.1a)**			If Not, Why? (Please specify all applicable) (**3A2.1b)**	Did you meet doctors as usual during the pandemic? (Yes – 1, No – 0) (**3A2.1c)**			If Not, Why? (Please select all applicable) (**3A2.1d)**	Were medicines available in clinics or pharmacies? (**3A2.1e)**			Did you have access to necessary PPEs during the pandemic? (masks, face shields and sanitizers) (**3A2.1f)**		
	First wave	**Second wave**	**Third wave**		**First wave**	**Second wave**	**Third wave**		**First wave**	**Second wave**	**Third wave**	**First wave**	**Second wave**	**Third wave**
1														
2														
3														
4														
5														

If No, Why? (Please specify all applicable) (**3A2.1b)**	If Not, Why? (Please select all applicable) (**3A2.1d)**	Were medicines available in clinics or pharmacies? (**3A2.1e)**	Did you have access to necessary PPEs during the pandemic? (**3A2.1f)**
1-Health clinics were not conducted as usual 2-Unavailability of transportation service 3- Movement restrictions 4-Felt fear to go due to pandemic 5-Usual medicines were taken from pharmacy 6-Used online delivery 7-Received medicine from the hospital 8-Other(specify)	1-Movement restriction 2-Unavailability of transportation services 3-Felt fear to go out due to pandemic 4-Tend to use herbal medicines 5-Doctors were not available 6-Difficulties to meet a doctor (filling forms, not allowing two people to go inside, time consuming...etc) 7-Not used to meet doctors usually 8-Other(specify)	1-Always 2-Partially/sometimes 3-Not available 4-Don´t know	1-Always 2-Partially/sometimes 3-Not available 4-Don´t know

3A2.2. Information regarding the pandemic

1-Strongly Agree 2-Agree 3-Undecided 4-Disagree 5-Strongly Disagree

Member	I received necessary health guidelines frequently **(3A2.2a)**			I received necessary information on location and severity of infection frequently **(3A2.2b)**			I felt highly confident about the reliability of the pandemic related information? **(3A2.2c)**			What is the primary source of information? (Select answers from the list below) **(3A2.2d)**		
	First wave	**Second wave**	**Third wave**	**First wave**	**Second wave**	**Third wave**	**First wave**	**Second wave**	**Third wave**	**First wave**	**Second wave**	**Third wave**
1												
2												
3												
4												
5												

What is the primary source of information? (3A2.1d)
1-Television
2-Radio
3-Newspapers
4-Social media (Face book, WhatsApp, YouTube…etc)
5-Telephone
6- Posters/leaflets
7-Public announcements
8-Word of mouth
9-Other(Specify)

Any other information that you need to share with us

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3A2.3. Vaccination as a containment strategy

Member	Were you vaccinated? (Yes-1, No-2) (**3A2.3a)**	If Yes, what is the type of vaccination? 1- Covishield-Indian vaccine 2- Sinopharm-Chinese vaccine 3- Sputnik – V-Russian vaccine 4- Pfizer 5- Moderna 6- AstraZeneca (**3A2.3b)**	How many doses received? 1-one dose 2-Two doses (**3A2.3c)**	If you were not vaccinated, Why? **(Select all applicable)** 1-Due to unavailability 2-Vaccine is not safe 3-Prefer herbal medicine 4-Other (specify) (**3A2.3d)**
1				
2				
3				
4				
5				

Any other information that you need to share with us

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3A3.1 Social Stigma

1-Strongly Agree 2-Agree 3-Undecided 4-Disagree 5-Strongly Disagree

Member	Have you infected with Corona? (Yes-1, No-2) If yes, answer the rest of the questions in the table **(3A3.1a)**	I felt fear and separated from the society (**3A3.1b**)	I received the support from family members when infected **(3A3.1c)**	I received support from neighbors when infected **(3A3.1d)**	I received support from health care services when infected **(3A3.1e)**
1					
2					
3					
4					
5					

Any other information that you need to share with us

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3A3.2. If No,

1-Strongly Agree 2-Agree 3-Undecided 4-Disagree 5-Strongly Disagree

Member	Did you experience corona like symptoms? (Yes -1, No – 2) (**3A3.2a**	If yes, 1-Had medical advices/testing 2- Felt reluctance to have medical advices due to social stigma (**3A3.2b**)	Provided support for the infected family members? (**3A3.2c)**	Provided support for the infected neighbors? (**3A3.2d**)	Provided support for the infected colleagues (**3A3.2e**)
1					
2					
3					
4					
5					

Any other information that you need to share with us

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3B. Economic Impact

3B1. Impact on Livelihood

3B1.1. Which of the following category includes your average monthly household income?

	Pre-pandemic		**First wave**		**Second wave**		**Third wave**	
1	<10000		<10000		<10000		<10000	
2	10000 - 25,000		10000 - 25,000		10000 - 25,000		10000 - 25,000	
3	25,000 – 50,000		25,000 - 50,000		25,000 – 50,000		25,000 – 50,000	
4	50,000 – 80,000		50,000 - 80,000		50,000 – 80,000		50,000 – 80,000	
5	>80,000		>80,000		>80,000		>80,000	

3B1.2. Consider the three pandemic periods and answer the following

Member	Did your employment routine/activities change due to pandemic? **(3B2a)** 1-Yes 2-No			If Yes, what is/are the change/s? (Select from the choices given below) **(3B2b)**			Compared to pre-covid situation, what was the status of your income during pandemic? **(3B2c)**			What were the reasons for the reduction of your income during the pandemic? **(3B2d)**			If income reduced, did you have to take any additional measures to cover the expenses 1-Yes 2-No **(3B2e)**			If yes, what measures? **(3B2f)**		
	First wave	**Second wave**	**Third wave**	**First wave**	**Second wave**	**Third wave**	**First wave**	**Second wave**	**Third wave**	**First wave**	**Second wave**	**Third wave**	**First wave**	**Second wave**	**Third wave**	**First wave**	**Second wave**	**Third wave**
1																		
2																		
3																		
4																		
5																		

If Yes, what is your work status? (Select from the choices given below) **(3B2b)**	Compared to pre-covid situation, what was the status of your income during pandemic ? **(3B2c)**	What were the reasons for the reduction of your income during the pandemic? **(3B2d) (Select all applicable)**	If yes, what measures? **(3B2f)**
1- Working with reduced hours/days 2- Working from home 3- Temporary lay-off and expect to return to work 4- Permanently laid-off 5- Feel the need to seek a job and Found a job 6- Feel the need to seek a job and still seeking a job 7- Other(Specify)	1- Income increased 2- Income reduced 3- Income stopped 4- No change in income	1- Employer reduced my wage/salary level 2- Less hours/days worked due to Coronavirus measures 3- I became unemployed (laid-off) 4- I changed my job 5-Reduction in income from cultivation/ harvest 6-Reduction in income through remittances 7- Reduction in income through rent 8-Reduce transfers/scholarships 9- Other(Specify)	1-Withdrew savings 2-Borrowed from formal semi-formal sources like banks, village level societies 3-Borrowed from informal sources like money lenders, relatives, friends 4-Pawned assets 5-Reduced non-consumption expenditure 6-Reduced consumption 7-Received assistance (cash or in kind support) from the government 8-Received cash/in-kind support from non-government or informal sources 9-Other(Specify)

3B1.3. Were you/your household members beneficiaries of the following

	Pre-Pandemic		First wave		Second wave		Third wave	
1	*Samurdhi*		*Samurdhi*		*Samurdhi*		*Samurdhi*	
2	Nutritional Stamps		Nutritional Stamps		Nutritional Stamps		Nutritional Stamps	
3	Senior citizen allowance		Senior citizen allowance		Senior citizen allowance		Senior citizen allowance	
4	Disability allowance(assistance for chronic kidney disease)		Disability allowance(assistance for chronic kidney disease)		Disability allowance(assistance for chronic kidney disease)		Disability allowance(assistance for chronic kidney disease)	
5	Remittance		Remittance		Remittance		Remittance	
6	Basket of food(“*Badu malla”)*		Basket of food(“*Badu malla”)*		Basket of food(*“Badu malla”)*		Basket of food*(“Badu malla”*)	
7	Other(Specify)		5000 allowance		5000 allowance		5000 allowance	

In addition to above- mentioned cash and in-kind support from the government, did you get any other support?

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Any other information that you need to share with us

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3B2 Changing of Food Pattern

3B2.1. Did your availability of food in terms of quantity changed during the pandemic periods compared to pre-covid period?

	First Wave	Second Wave	Third Wave
1.Same			
2.Increased the quantity			
3.Decreased the quantity			
4.Change the food pattern time , type			

3B2.2. What is/are the reason/s to consume MORE/LESS quantity than before the pandemic (Please select all applicable)?

Reasons to MORE consumption	First Wave	Second Wave	Third Wave	
Because price was reduced				1
Supply was increased (home delivery, online apps..etc) – high availability				2
Did not have work to do/due to less work ate more				3
We grow vegetables and fruits				4
Received from neighbors				5
Due to government support (eg: dhal and canned fish)				6
Other(specify)				7

Reasons to LESS consumption	First Wave	Second Wave	Third Wave	
Because price was increased				8
Unavailability of foods in store				9
Movement restriction				10
Income losses				11
Other(specify)				12

Any other information that you need to share with us

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3C. Mobility Impact

3C.1. Please state your frequency of accessing to sources of food during the given periods

1-Never 2-Less often 3-Often 4- Very Often

Source of food	Household			
	Pre	First wave	Second wave	Third wave
1.1 Neighborhood shops/stores				
1.2. Main Super Market				
1.3. Mini super markets				
1.4. Home delivery/mobile shops				
1.5. Own fields				
1.6. Govt/NGO				
1.7. Using online app (pick me, Uber, kapruka…etc)				
1.8. From Neighbors				
1.9. From fairs in cities/village				
1.10. Other(Specify)				

3C.2. Please state your frequency of accessing to financial localities to get service during the given periods

1-Never 2-Less often 3-Often 4- Very Often

Financial Localities	Respondent																			
	1				2				3				4				5			
	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave
2.1. Bank located in town/city																				
2.2. Bank located in near by																				
2.3. Local financial Institutes (eg: Sanasa)																				
2.4. ATM in city																				
2.5.ATM nearby																				
2.6. Online banking																				
2.7. Post office																				
2.8. Other(specify)																				

3C.3. Please state your frequency of access to the following leisure activities during the given periods

1-Never 2-Less often 3-Often 4-Very Often

Leisure Activities	Household			
	Pre	First wave	Second wave	Third wave
3.1.Going to trips				
3.2. Recreational places				
3.3. Social Gatherings				
3.4. Other(Specify)				

3C.4. Other Mobility Patterns

Please state the frequency of using these modes of transportation during the given periods

1-Never 2-Less often 3-Often 4- Very Often

Mode of Transport	**Respondent**																			
	1				**2**				**3**				**4**				**5**			
	Pre	**First wave**	**Second wave**	**Third wave**	**Pre**	**First wave**	**Second wave**	**Third wave**	**Pre**	**First wave**	**Second wave**	**Third wave**	**Pre**	**First wave**	**Second wave**	**Third wave**	**Pre**	**First wave**	**Second wave**	**Third wave**
4.1. Use public transport																				
4.2.Shared vehicle (School vans, staff vehicles, private vehicles provided by the institute)																				
4.3. Use hired three wheelers																				
4.4. Use own motor vehicles																				
4.5. Use of bicycles																				
4.6. Walking																				
4.7. Other (specify)																				

3C.5. Work Mobility and Human Interactions

Please state the frequency of experiencing the following Mobility Pattern during the given periods

1-Never 2-Less often 3-Often 4- Very Often

	Respondent																			
	1				2				3				4				5			
	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave
Work from home																				
Come to work from home																				
Come to work from rent out place/ Boarding place																				
Come to work from common hostel																				
Other(Specify)																				

3C5.2. Please state the frequency of using following mode of transportations for work

1-Never 2-Less often 3-Often 4- Very Often

	Respondent																			
	1				2				3				4				5			
	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave
Use public transport																				
Shared vehicle (School van, staff vehicles, private vehicles provided by the institute)																				
Use hired three wheelers																				
Use own motor vehicles																				
Use of bicycles																				
Walking																				
Other (specify)																				

3C5.3. Please state the frequency of experiencing the following . Level of interaction in work during the given periods

1-Never 2-Less often 3-Often 4- Very Often

	Respondent																			
	1				2				3				4				5			
	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave	Pre	First wave	Second wave	Third wave
Work alone at home																				
Work with few known group of people																				
Work with regular few known people and limited unknown people																				
Work with irregular few unknown people																				
Work with irregular large groups																				
Other(Specify)																				

3D. Cultural Impact

Consider your household members and answer

Did you limit your gatherings due to COVID? (weddings, parties, funeral)? Yes-1, No-2) **(3D.1)**	Did you face any difficulties due to limitation of the gatherings due to COVID? **(Yes-1, No-2) (3D.2)**	Have you missed any cultural events due to COVID (New year, Thaipongal…etc)? **(Yes-1, No-2) 3D.3)**	Have you changed your usual rituals due to COVID (prayers, pirith,pooja,attending to temple…etc)? **(Yes-1, N0-2) (3D.4)**	Did you feel unfairly discriminated due to religious and cultural believes (eg: burying of dead bodies)? **(3D.5)**

Any other information that you need to share with us

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4D. Mental Impact

4D1.Effect of lockdown on one's emotions, feelings, and various aspects of life

1-No change 2-Slightly increased 3-Markedly increased 4-Slightly decreased 5-Markedly decreased 6-Cannot say

	Respondent				
	1	**2**	**3**	**4**	**5**
1.Loneliness					
2.Emptyness					
3.Social connectedness					
4.Fear of death					
5.Sleep					
6.Appetite					
7.Substance use, including alcohol					
8.Use of social media					
9.Watching movies, Playing indoor games, Reading books/Drawing/Painting					

Any other information that you need to share with us

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4D2. Effect of lockdown on relationships

1-No change 2-Slightly increased 3-Markedly increased 4-Slightly decreased 5-Markedly decreased 6-Cannot say

	Respondent				
	1	**2**	**3**	**4**	**5**
1.Relationship with family members					
2.Relationship with your neighbors					
3.Relationship with your office colleagues					

Any other information that you need to share with us

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5E. Socio-political Impact

Did you get any supports from political leaders/parties during the following periods? (Yes -1, No -2)			If Yes, What are they? (Select all applicable) 1-Providing subsidies 2-providing money 3-providing masks, sanitizers like sanitory requirements needed to prevent from pandemic 4-other (specify)			Were you/family member satisfied with the support given by the government in following periods? (Yes-1, No-2) (**5E.1.)**		
First wave	**Second wave**	**Third wave**	**First wave**	**Second wave**	**Third wave**	**First wave**	**Second wave**	**Third wave**

Any other information that you need to share with us

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…….Thank you for your time ……

Observations of Interviewer: