

130269J	Ayesha Kandekumbura		Tamasha Malepathirana	chatbot to make appointments at a clinic	A simple chatbot for a clinic which answers direct questions from users in natural language on doctors' availability and appointments. The chatbot should be able to search for free time slots, make appointments and change existing appointments.
150201N	Deshani Gunawardhana		Isura Manchanayake	Speech recognizing calculator	A calculator which has scientific calculations and unit conversions using speech recognition.
160001K	AATHMAN T.	Aathman	Isura Manchanayake	Modelling topic pathways in social media	Social media texts can contain topics associated with them. These topics can summarize its valuable content. The topics can evolve over time as well. Use topic modelling methods to identify evolving topics and use that for a specific service type domain and visualize them.
160007J	ABINAYAN B.	Abinayan	Wishmitha Mendis	Course Material Manager for Undergraduate Students	An application which can read the courses which are undertaken by an undergraduate from Moodle and provide an user-friendly interface to put and manage course materials for each course.
160010L	ADHIKARI A.M.N.C.	Nuraj	Bhanuka Mahanama	Acoustic Data Transfer	A plugin or application that support acoustic data transfer. the application should provide security against possible attacks or exploits of acoustic data transfer
160013A	AJANTHASINGAM	Ajanthasi	Chamath Abeysinghe	Mobile platform to get things delivered	Everyday some people travel to different parts of the country, and some others just want to get things delivered. This project is a platform to match these two types of people.
160016K	AKALANKA K.P.B.S	Bhagya	Indika Perera	Sinhala word learning android app	Spelling game: learn to spell https://play.google.com/store/apps/details?id=com.edubuzzkids.learnspellforchildren
160032F	ANURANJANA S.H.	uditha	Chamath Abeysinghe	Mobile platform to get things delivered	Everyday some people travel to different parts of the country, and some others just want to get things delivered. This project is a platform to match these two types of people.
160034M	ANUSHIYA T.		Tamasha Malepathirana	chatbot to make appointments at a clinic	A simple chatbot for a clinic which answers direct questions from users in natural language on doctors' availability and appointments. The chatbot should be able to search for free time slots, make appointments and change existing appointments.
160040D	ARCHULAN R.	Archulan	Indika Perera	Sinhala word puzzle android app	https://play.google.com/store/apps/details?id=com.edujoy.Word.Search.Kids
160046C	ATHUKORALA A.U.	Udesh	Wishmitha Mendis	Squad Selection for Sri Lankan Cricket Team based on Recent Performances	An application to pick 15 player squad for upcoming tournaments. Recent performance data of the players can be obtained by scraping player data in a website like espnscricinfo or cricbuzz. The scraped data can be used to develop machine learning models or other techniques to pick the best squad.
160047F	ATHUKORALA H.I.	Hasitha	Isura Manchanayake	AR based house planning	AR is feasible for current mobile technology. Room properties can be planned to place using 3D models with AR. This can be useful for both residents and house planners to reduce both financial and timely costs.

160067P	BIMSARA V.G.B.	Bavindu	Chanuka Wijayakoon	Laboratory Test Records System with user-configurable tests	Medical laboratories perform multiple tests, sometimes 30-40 different tests, eg: Lipid profile, Full Blood Count. When creating a record management system for such a lab, there are multiple ways to define the tests and provide UI to enter records. One is to define all tests at the beginning, and hard-code UI and DB for each test - this is better performance-wise but is not flexible. The client has to come back to the developer to add/update/remove forms. The project will be to build a full lab test record management system (web application) integrating a flexible form schema solution. The user must be able to create/read/update/delete test forms and use them to save test results.
160069A	BOGAHAWATHTHA	Thilini	Wishmitha Mendis	Reference Generator for a Document Editor	An extension to an open source document editor (LibreOffice, OpenOffice) to easily generate references for the user's reference documents. The user should be able to provide the list of reference documents (in PDF or some other form) and the extension should be able to read the metadata from selected document and cite it in the given reference style.
160071X	BOYAGANE W.M.I.E	Isuru	Bhanuka Mahanama	Platform for Computation contribution and Sharing	A platform that consist of a mobile application where the user can opt in to contribute their computational resources the mobile devices for scientific projects. The user should be able to chose between projects and different parameters to provide computational resources such as battery level, time of the day, etc. On the platform end, it sould provide the computationally heavy algorithms, or tasks (Selected set for the project). The user needs to be rewarded and recognized for the contributions as well.
160075M	BUDDHIMA K.P.K.	Kashuni	Indika Perera	Sinhala word puzzel android app	https://play.google.com/store/apps/details?id=com.edujoy.Word.Search.Kids
160078B	CHAMISHKA P.H.S.	Sadil	Sanduni Prasadi	Preprocessor for bioinformatics tools	There are large number of file types used by different tools related to bioinformatics applications. Although libraries of Python and R provide functionality to convert most of those files, bioinformaticians have to have a considerable amount of knowledge in doing so. Even to write a program he/she first needs to identify the file types. You need to create a web site to solve this problem. The back-end should be able to convert between any type of files related to Bioinformatics (when doing so you need find the most suitable language). In the front-end users are able to convert files directly by selecting file formats or otherwise based on most commonly used tools and database sites.
160083K	CHATHURA B.D.	dulanjaya	Chamath Abeysinghe	Sinhala spelling correction mobile keyboard app	Sinhala keyboard application for android. Could autocorrect/suggest spelling mistakes
160109A	DEHIGASPITIYA S.I	Suchitha	Wishmitha Mendis	Filter Social Media Content	An application to filter posts related to a given topic from all the social media platforms of the user. The user can provide a topic of interest and the application should provide updates on that topic from all the user's social media feeds. Social media APIs can be used in the development process.
160110T	DEMOTTE P.A.	Piyumal	Isura Manchanayake	AR based house planning	AR is feasible for current mobile technology. Room properties can be planned to place using 3D models with AR. This can be useful for both residents and house planners to reduce both financial and timely costs.

160127C	DISANAYAKA I.M.M	Ishan	Akhitha Manjitha	Augmented Reality measuring app	A mobile app to take body measurements required in tailoring using an AR camera. (eg .Height, Soulder width, Collar size etc). App should be able to take measurements to the accurcy of 1cm.
160129J	DISSANAYAKA D.M	Chanuka	Chamath Abeysinghe	Chrome extension to manage password using face recognition	In chrome if a password is saved, it can be used by any user currently using the machine. To avoid that, unlock password only if it can verify that the authentic person is using the laptop. Implement a face recognition based password manager.
160153C	FERNANDO N.I.L.		Sanduni Prasadi	Preprocessor for bioinformatics tools	There are large number of file types used by different tools related to bioinformatics applications. Although libraries of Python and R provide functionality to convert most of those files, bioinformaticians have to have a considerable amount of knowledge in doing so. Even to write a program he/she first needs to identify the file types. You need to create a web site to solve this problem. The back-end should be able to convert between any type of files related to Bioinformatics (when doing so you need find the most suitable language). In the front-end users are able to convert files directly by selecting file formats or otherwise based on most commonly used tools and database sites.
160156M	FONSEKA W.A.T.R.	Thilakshi	Yasas Senarath	Tweet Opinion Visualization	Create a platform to visualize (emotions and other information) tweets obtained suing twitter Streaming API over last n number of days. This Visialization should support spacial and temporial aspects. Emotion analysis algorithm should be implemented saperately. Should indicate the intencity of emotion with respect to topics.
160170B	GUNARATHNE K.M	Buddhi	Tamasha Malepathirana	Meta search engine for hotels	Meta search Engine is an application which fetch data from search results of other search engines. Build a simple meta search engine which aggregatesand displays hotel offerings from multiple online travel agents(eg: booking.com, hotels.com) .
160176A	GUNASEKARA M.G	Sandun	Dulani Meedeniya	Sign to speech translator	Consider both static and dynamic sign languages, using single hand and both hands and transfer them to speech.
160180F	GUNASINGHE K.K.	Kaumini	Chamath Abeysinghe	Calculate land size	A web application to meassure landsize using satellite images. User could mark the required land on a satellite image and calculate the land size
160186E	GUNAWARDENA R	Ravin	Chamath Abeysinghe	Calculate land size	A web application to meassure landsize using satellite images. User could mark the required land on a satellite image and calculate the land size
160187H	GUNAWARDHANA H.G.M.A.		Tharushi De Silva	Real Time HD Video process offloading	In modern video games, processing high definition video streams is a major computational concern. a smaller mobile device does not have enough computational, graphic capacity to process them in real time. The sugested system comes under cyber foraging, which offloads video processing tasks into a nearby server which is more computationally capable.
160197M	HEMACHANDRA B.	Osanda	Thirasara Ariyaratna	Biometric based password remembering (Browser plugin or mobile application)	Password remembering feature in browser is a very important feature specially if we have number of accounts that have different usernames and passwords. But this feature is vulnerable if someone else have the access to the access to your computer in some point he/she can log into your social media and all the other occounts for which you have enabled password remembering feature. So it is very useful in secure if we can enable that password remembering option via biometric authentication so that only account owner can enable password remembering feature.

160214P	HEWAGAMA M.	Madhush	Sanduni Prasadi	Phylogenetic tree visualizer	A website that outputs a phylogenetic tree based on user inputs. The visualization of the tree must enable features such as zoom in, zoom out, rotate, select part of the tree, formattings, save as multiple file types etc.
160217D	HINGURUDUWA L.	Lahiru	Tamasha Malepathirana	Web Based Online Blood Donation System	we often donate blood voluntarily at blood donation camps and government hospitals in the hope that it might help people in need. While this act may definitely be helpful, the process may not be effective as we hope them to see. Users register to the system providing necessary information including their location either as a donor or seeker. Donors publish their willingness and seekers publish their needs where the applications maps these donors and seekers based on their location.
160222M	ISANKA S.R	Isanka	Chamath Abeysinghe	Document scanner app	Mobile application to scan printed documents, extract text & images separately and save them in PDF format.
160224V	ISURANGA M.T.U.	Udhan	Bhanuka Mahanama	Platform for Computation contribution and Sharing	A platform that consist of a mobile application where the user can opt in to contribute their computational resources the mobile devices for scientific projects. The user should be able to chose between projects and different parameters to provide computational resources such as battery level, time of the day, etc. On the platform end, it sould provide the computationally heavy algorithms, or tasks (Selected set for the project). The user needs to be rewarded and recognized for the contributions as well.
160233X	JAYASEKARA J.A.R	Randika	Isura Manchanayake	Ride sharing	There are several taxi apps in usage right now in Sri Lanka. However only some of them have implemented ride sharing. Implement a ride sharing component for taxi app in Sri Lankan context.
160245K	JAYATILAKA A.W.T	Tarindu	Isura Manchanayake	Realistic vegetation placement	3D game developers need to generate vegetation (including trees, geographical features, water) fast for efficient development. This process should be fast and realistic enough for different types of environments (rain forests, deserts etc.). In this project you have to consider only placement of vegetation.
160248X	JAYaweera B.K.D	Mayantha	Isura Manchanayake	Realistic vegetation placement	3D game developers need to generate vegetation (including trees, geographical features, water) fast for efficient development. This process should be fast and realistic enough for different types of environments (rain forests, deserts etc.). In this project you have to consider only placement of vegetation.
160253H	JAYAWICKRAMA T.	Thamindu	Dulani Meedeniya	Sign to speech translator	Consider both static and dynamic sign languages, using single hand and both hands and transfer them to speech.
160254L	JEEWANATHA A.V.C	Chamoda	Bhanuka Mahanama	Mobile game for kids	Most of the games developed for the kids do not promote any form of physical activity. The project is to come up with a solution for the issue through a game. The game concept should promote physical activities. (Should be able to recognize the kid engaging in it) Hint : PokemonGo
160255P	JENARTHANAN R.	Jenarthan	Wishmitha Mendis	Filter Social Media Content	An application to filter posts related to a given topic from all the social media platforms of the user. The user can provide a topic of interest and the application should provide updates on that topic from all the user's social media feeds. Social media APIs can be used in the development process.

160256U	JEYAKEETHAN J.	Jeyakeet	Wishmitha Mendis	Multiplatform Media Library	A media library platform that can manage and display all the movies, music, videos and e-books in the user's device. The application should be able to read metadata from media files and categorize files under the artist or author. The user should be able to access and stream media files remotely from the smartphone or some other device. Further, the user should be able to share media files with another user
160259G	KAHANDAWAARAC	Chamin	Chanuka Wijayakoon	Laboratory Test Records System with user-configurable tests	Medical laboratories perform multiple tests, sometimes 30-40 different tests, eg: Lipid profile, Full Blood Count. When creating a record management system for such a lab, there are multiple ways to define the tests and provide UI to enter records. One is to define all tests at the beginning, and hard-code UI and DB for each test - this is better performance-wise but is not flexible. The client has to come back to the developer to add/update/remove forms. The project will be to build a full lab test record management system (web application) integrating a flexible form schema solution. The user must be able to create/read/update/delete test forms and use them to save test results.
160267E	KANARUPAN N.	Kanarupa	Tharushi De Silva	Real Time HD Video process offloading	In modern video games, processing high definition video streams is a major computational concern. a smaller mobile device does not have enough computational, graphic capacity to process them in real time. The suggested system comes under cyber foraging, which offloads video processing tasks into a nearby server which is more computationally capable.
160278M	KARUNANAYAKE K	Binod	Bhanuka Mahanama	Map Merge	An application where parts of overlapping map segments generates a larger map. (Map mergin, highly useful in map generation using multiple robots) Here we can focus more on image processing aspect. (example multiple planar images by a kinect)
160280L	KARUNARATHNA D	Dilini	Bhanuka Mahanama	Map Merge	An application where parts of overlapping map segments generates a larger map. (Map mergin, highly useful in map generation using multiple robots) Here we can focus more on image processing aspect. (example multiple planar images by a kinect)
160287N	KARUNASENA T.G.	Ushira	Isura Manchanayake	Desktop file manager	Default file managers have limited capability in searching, tagging, grouping and previewing. Implement a standalone desktop file manager which have such more advanced features than the default operating system file explorer.
160289X	KARUNATHILAKA V	manusha	Vindula Jayawardana	Visualizing framework for on demand taxi services like Uber	Design and develop high performing visualization framework for datasets coming from popular on demand services like Uber and PickMe. The framework should be able to accomodate different datsets such as New York Yellow Taxi dataset and Singapore Taxi Dataset. Any person who would like to run a visulaization on top of such taxi datsets should be able to use the framework. Apart from the taxi fleet movements, framework should also visualize the change of service level parameters alongside the taxi movements. It is expeceted to develop routing simulation algorithms for the framework and use it to naviage taxis. This is expected to continue as an open source framework.

160292B	KATULANDA O.A.	Oshadha	Bhanuka Mahanama	Emotion Detection	Emotion detection and surveying using surveillance cameras. Use case in restaurent industry where we can identify levels of customer satisfaction.
160299D	KAYATHIRI M.	Kayathiri	Thirasara Ariyaratna	Online auctioning platform using blockchain	A web application based on blockchain for an auctioning system where users can register items to the platform and start auctioning that item.
160314X	KULASINGHE R.D.T.D.		Isura Manchanayake	Lyrics Searcher	Create a dataset of song lyrics by scraping some lyrics sources. Then implement an advanced searching application for lyrics which might contain spell correction, sorting search results by importance, word normalization etc.
160317J	KULATUNGE M.C.N	Nadun	Thirasara Ariyaratna	A project management tool linked with github	A project managemnt tool is very helpful to track the progress of an ongoing project and also to plan a project ahead of time. When this tool is linked with github users can track the progress of the of the ongoing project work with respect to actual implementation.
160325G	KUMARAMOORTHY	sujanie	Tamasha Malepathirana	Meta search engine for hotels	Meta search Engine is an application which fetch data from search results of other search engines. Build a simple meta search engine which aggregatesand displays hotel offerings from multiple online travel agents(eg: booking.com, hotels.com) .
160339D	LAKSHIKKA S	Lakshikka	Bhanuka Mahanama	Emotion Detection	Emotion detection and surveying using surveillance cameras. Use case in restaurent industry where we can identify levels of customer satisfaction.
160340X	LAKSHITHA B.L.N.	Nuwan	Thirasara Ariyaratna	Biometric based password remembering (Browser plugin or mobile application)	Password remembering feature in browser is a very important feature specially if we have number of accounts that have different usernames and passwords. But this feature is vulnerable if someone else have the access to the access to your computer in some point he/she can log into your social media and all the other occounts for which you have enabled password remembering feature. So it is very useful in secure if we can enable that password remembering option via biometric authentication so that only account owner can enable password remembering feature.
160344M	LAVANARAJ S.	lavanaraj	Isura Manchanayake	Speech recognizing calculator	A calculator which has scientific calculations and unit conversions using speech recognition.
160355X	LIYANAGE S.M.	Sandani	Wishmitha Mendis	Reference Generator for a Document Editor	An extension to an open source document editor (LibreOffice, OpenOffice) to easliy generate refernces for the user's reference documents. The user should be able to provide the list of reference documents (in PDF or some other form) and the extension should be able to read the metadata from selected document and cite it in the given reference style.
160356C	LIYANAPATHIRANA	Upuli	Vindula Jayawardana	Visualizing framework for on demand taxi services like Uber	Design and develop high performing visualization framework for datasets coming from popular on demand services like Uber and PickMe. The framework should be able to accomodate different datsets such as New York Yellow Taxi dataset and Singapore Taxi Dataset. Any person who would like to run a visulaization on top of such taxi datsets should be able to use the framework. Apart from the taxi fleet movements, framework should also visualize the change of service level parameters alongside the taxi movements. It is expeceted to develop routing simulation algorithms for the framework and use it to naviage taxis. This is expected to continue as an open source framework.

160358J	LOGHI P.	Loghi	Wishmitha Mendis	Multiplatform Media Library	A media library platform that can manage and display all the movies, music, videos and e-books in the user's device. The application should be able to read metadata from media files and categorize files under the artist or author. The user should be able to access and stream media files remotely from the smartphone or some other device. Further, the user should be able to share media files with another user
160361L	MADHAVI G.H.I.	Ishara	Isura Manchanayake	Modelling topic pathways in social media	Social media texts can contain topics associated with them. These topics can summarize its valuable content. The topics can evolve over time as well. Use topic modelling methods to identify evolving topics and use that for a specific service type domain and visualize them.
160374E	MADURANGA H.P.U	Uditha	Isura Manchanayake	Desktop file manager	Default file managers have limited capability in searching, tagging, grouping and previewing. Implement a standalone desktop file manager which have such more advanced features than the default operating system file explorer.
160376L	MADURAWA R.N.	Ranika	Chamath Abeysinghe	Find empty parking spaces using computer vision	It is difficult to find available parking space in a crowded premises. As a solution we could use input from CCTV/Camera system, find free space and make that information available online.
160377P	MADUSANKA B.A.T	Tharindu	Sanduni Prasadi	Phylogenetic tree visualizer	A website that outputs a phylogenetic tree based on user inputs. The visualization of the tree must enable features such as zoom in, zoom out, rotate, select part of the tree, formatings, save as multiple file types etc.
160385M	MADUSHAN W.M.D	Dimuthu	Thirasara Ariyaratna	Online auctioning platform using blockchain	A web application based on blockchain for an auctioning system where users can register items to the platform and start auctioning that item.
160386R	MADUSHANKA H.P	Mahesh	Vindula Jaywardana	Virtual self driving car using reinforcement learning	Design and develop a virtual self driving car using reinforcement learning to mimic the behaviour when it is running with set of another self driving cars or rule based cars (human cars). This can be used in observing the impact that the self driving car can have on damping the traffic bottlenecks caused by rule based cars. No prior knowledge in RL or self driving cars are needed.
160387V	MADUSHANKA N.G	Sumudu	Isura Manchanayake	Traffic flow simulation for Colombo	Vehicle traffic is a serious problem in rush hours around Colombo area. Identify roads and places where the traffic and perform an agent based simulation for Colombo area. Find in which ways the road network should be changed for best traffic flow by tweaking the simulation.
160393K	MAMALGAHA I.G.L.	Lakshan	Tamasha Malepathirana	Graphical Password Authentication System	A graphical password is an authentication system that works by having the user select from images, in a specific order, presented in a graphical user interface (GUI). Design a Graphical Password Authentication System overcoming the limitation of existing methods
160400H	MATHIVATHANAN	Mathivath	Chathurika Gamage	Mathematical problem solver using imagery	Implement mobile application to capture the images of mathematical equations (eg: $3x-7 = 11$), solve the equation and display the results step by step.
160411R	MUNASINGHE A.D.	Udyogi	Wishmitha Mendis	Computation DAG (Direct Acyclic Graph) generator for multithreaded recursive algorithms	The execution of a multi-threaded recursive algorithms can be represented using computation DAG. An application should be developed to represent the computation DAG for a given multithreaded recursive algorithm.

160424J	NARANPANAWA W	Rashmini	Tamasha Malepathirana	Graphical Password Authentication System	A graphical password is an authentication system that works by having the user select from images, in a specific order, presented in a graphical user interface (GUI). Design a Graphical Password Authentication System overcoming the limitation of existing methods
160425M	NARTHATHANAN T.	Narththar	Thirasara Ariyaratna	A project management tool linked with github	A project management tool is very helpful to track the progress of an ongoing project and also to plan a project ahead of time. When this tool is linked with github users can track the progress of the ongoing project work with respect to actual implementation.
160427V	NAVODYA N.P.P.N.	Prathibha	Wishmitha Mendis	Squad Selection for Sri Lankan Cricket Team based on Recent Performances	An application to pick 15 player squad for upcoming tournaments. Recent performance data of the players can be obtained by scraping player data in a website like espn.cricinfo or cricbuzz. The scraped data can be used to develop machine learning models or other techniques to pick the best squad.
160432G	NAYANAJITH M.M.D	Dilan	Isura Manchanayake	Lyrics Searcher	Create a dataset of song lyrics by scraping some lyrics sources. Then implement an advanced searching application for lyrics which might contain spell correction, sorting search results by importance, word normalization etc.
160441H	NIRMAL M.G.P.	Pramith	Chamath Abeysinghe	Document scanner app	Mobile application to scan printed documents, extract text & images separately and save them in PDF format.
160442L	NIROJAN T.	Nirojan	Bhanuka Mahanama	Personally Identifiable Information	A classifier that can classify personally identifiable information from a given data source. One option is create a browser plugin
160449N	NURADHA M.H.R.	Ravindu	Tharushi De Silva	Digitalizing manual sketches as vectors	The main purpose of this implementation is to minimize the memory consumption of raw images. While the OCR techniques can identify handwritten/scanned alphabetical letters and equations we should be able to record the diagrams, sketches in a more compact and conventional form.
160451M	PADMASIRI R.M.H.	Heshan	Chamath Abeysinghe	Find empty parking spaces using computer vision	It is difficult to find available parking space in a crowded premises. As a solution we could use input from CCTV/Camera system, find free space and make that information available online.
160452R	PANAPITIYA P.D.D.S.		Bhanuka Mahanama	Personally Identifiable Information	A classifier that can classify personally identifiable information from a given data source. One option is create a browser plugin
160473G	PERERA L.R.S.	Ravinga	Wishmitha Mendis	Computation DAG (Direct Acyclic Graph) generator for multithreaded recursive algorithms	The execution of a multi-threaded recursive algorithms can be represented using computation DAG. An application should be developed to represent the computation DAG for a given multithreaded recursive algorithm.
160474K	PERERA M.R.S.	Ramitha	Tamasha Malepathirana	Web Based Online Blood Donation System	We often donate blood voluntarily at blood donation camps and government hospitals in the hope that it might help people in need. While this act may definitely be helpful, the process may not be effective as we hope them to see. Users register to the system providing necessary information including their location either as a donor or seeker. Donors publish their willingness and seekers publish their needs where the applications maps these donors and seekers based on their location.
160485U	PINTO H.P.A.I.C.	Isuru	Chathurika Gamage	Mathematical problem solver using imagery	Implement mobile application to capture the images of mathematical equations (eg: $3x-7 = 11$), solve the equation and display the results step by step.

160489K	PIUMINI M.G.M.	Methma	Tamasha Malepathirana	Emotion-based song suggestor	The proposed system should extract the facial expression of users and suggest songs that a user would like to listen thereby reducing the effort and time involved in rendering the process manually. (Can use an existing emotion detection algorithm)
160491J	PIYARATHNA L.L.C	Lakmali	Isura Manchanayake	Annotate video lectures by text (video to text)	If a video of a slide presentation is given, identify text in the video and create textual annotations. Better if video slides are identified as rich text.
160506M	RAJAPAKSHA K.T.B	Kalindu	Isura Manchanayake	Traffic flow simulation for Colombo	Vehicle traffic is a serious problem in rush hours around Colombo area. Identify roads and places where the traffic and perform an agent based simulation for Colombo area. Find in which ways the road network should be changed for best traffic flow by tweaking the simulation.
160509B	RAJAPAKSHA R.B.	Bawantha	Bhanuka Mahanama	Mobile game for kids	Most of the games developed for the kids do not promote any form of physical activity. The project is to come up with a solution for the issue through a game. The game concept should promote physical activities. (Should be able to recognize the kid engaging in it) Hint : PokemonGo
160514K	RAJITHA M.D.C.	Charith	Tamasha Malepathirana	Restaurant item suggestor based on association rule mining	Association rule mining is often used in Point of Sales systems to suggest items to the users based on the items they have already selected. Application should be capable of suggesting multiple items based on the current selections ordered by their likeliness of being purchased. For the above task, mining all the rules is ineffective thus requiring us to find a suitable minimum support and a minimum confidence for each merchant.
160517X	RANASINGHE M.K.	Malintha	Sanduni Prasadi	Visualizer for Microarray data/Gene expression data	Although R language provide libraries to visualize microarray data, they are not available online. Also the bioinformatician or biologist needs to have some knowledge on computer programming in order to visualize them. You need to create a website that visualize microarray data (input by user) using existing libraries.
160537H	RUCHINI M.M.C.	Chanika	Tamasha Malepathirana	Emotion-based song suggestor	The proposed system should extract the facial expression of users and suggest songs that a user would like to listen thereby reducing the effort and time involved in rendering the process manually. (Can use an existing emotion detection algorithm)
160538L	SABESAN S.	Sabesan	Chathurika Gamage	Face Classification system	Real time face detection and emotion detection system. Here you need to implement a system to classify the emotions in given face imagery. Eg: happy face ,sad face etc. Dataset Link (https://www.kaggle.com/c/emotion-detection-from-facial-expressions/data)
160544C	SAJEEVAN V.	Sajeevan	Vindula Jaywardana	Virtual self driving car using reinforcement learning	Design and develop a virtual self driving car using reinforcement learning to mimic the behaviour when it is running with set of another self driving cars or rule based cars (human cars). This can be used in observing the impact that the self driving car can have on damping the traffic bottlenecks caused by rule based cars. No prior knowlege in RL or self driving cars are needed.

160548R	SAMARAWICKRAM	Chamodi	Chathurika Gamage	Face Classification system	Real time face detection and emotion detection system. Here you need to implement a system to classify the emotions in given face imagery. Eg: happy face ,sad face etc. Dataset Link (https://www.kaggle.com/c/emotion-detection-from-facial-expressions/data)
160555K	SANDARUWAN T.H	Janaka	Isura Manchanayake	Annotate video lectures by text (video to text)	If a video of a slide presentation is given, identify text in the video and create textual annotations. Better if video slides are identified as rich text.
160557T	SANDEEPA G.L.C.A	Chanaka	Tharushi De Silva	Digitalizing manual sketches as vectors	the main purpose of this implementation is to minimize the memory consumption of raw images. While the OCR techniques can identify handwritten/scanned alphabetical letters and equations we should be able to record the diagrams, sketches in a more compact and conventional form.
160561B	SANKALPA B.M.G.H	Harith	Chamath Abeysinghe	App to blur backgrounds of selfies	Add the portrai mode effect to any selfie.
160571F	SENANAYAKE S.	Sachith	Isura Manchanayake	Ride sharing	There are several taxi apps in usage right now in Sri Lanka. However only some of them have implemented ride sharing. Implement a ride sharing component for taxi app in Sri Lankan context.
160575V	SENARATHNA S.M.S.D.		Chamath Abeysinghe	Sinhala spelling correction mobile keyboard app	Sinhala keyboard application for android. Could autocorrect/suggest spelling mistakes
160576B	SENEVIRATHNE D.	Damitha	Tamasha Malepathirana	Restaurant item suggestor based on association rule mining	Association rule mining is often used in Point of Sales systems to suggest items to the users based on the items they have already selected. Application should be capable of suggesting multiple items based on the current selections ordered by their likeliness of being purchased. For the above task, mining all the rules is ineffective thus requiring us to find a suitable minimum support and a minimum confidence for each merchant.
160578H	SENEVIRATHNE W	Lahiru	Thirasara Ariyaratna	Generating articles from speeches (speech to text)	It is important if we can generate written articles from speeches made in different occations. For example in occasions such as conferences, it is important to generate articles from the talks made in them. So we can convert speech to text and devide it into sub sections with different topics and generate a structured ariticle of the speech delivered using natural language processing.
160585C	SHASHIRANGANA A.A.J.		Sanduni Prasadi	Visualizer for Microarray data/Gene expression data	Although R language provide libraries to visualize microarray data, they are not available online. Also the bioinformatician or biologist needs to have some knowledge on computer programming in order to visualize them. You need to create a website that visualize microarray data (input by user) using existing libraries.
160596K	SIVARAM R.	Sivaram	Chamath Abeysinghe	Query SQL database using a natural language (English/Sinhala) (speech identification)	Program to convert given natural language qury to sql syntax and execute it on a database.

160605P	SRIYOUKAN S.	Sriyoukar	Thirasara Ariyaratna	Blockchain based land selling application	Blockchain is very popular for its transaction security and tracability of them. These two features are a perfect match for a land selling application because lands are assets which has increasing value and also purchasing lands should be done with transparency. So a blockchain based land selling application would enable transaction security and also one who is purchasing can traceback the history of the land to clarify any doubts about the land.
160618H	THAMEL W.G.S.H.	Gaya	Thirasara Ariyaratna	Generating articles from speeches (speech to text)	It is important if we can generate written articles from speeches made in different occations. For example in occasions such as conferences, it is important to generate articles from the talks made in them. So we can convert speech to text and devide it into sub sections with different topics and generate a structured article of the speech delivered using natural language processing.
160632U	THILANKA K.H.I.	Isuri	Yasas Senarath	Train Track	Track trains using GPS of users and relay to other users who are registered. The implementation should be effecient for mobile phones (should not use battery power a lot). The expected times to arrive at different stations should also be indicated in the app.
160633A	THINESHAN P.	Thinesha	Tamasha Malepathirana	Spam detection in hotel reviews	Many refer to reviews prior to making a hotel reservation. Thus these reviews can affect a brand positively as well as negatively. Design a spammer detection which can identify fake reviews in a hotel reservation site(eg: Trip advisor), overcoming the limitations of existing methods.
160646P	UTHAYAKUMAR S.	Saranya	Tamasha Malepathirana	Spam detection in hotel reviews	Many refer to reviews prior to making a hotel reservation. Thus these reviews can affect a brand positively as well as negatively. Design a spammer detection which can identify fake reviews in a hotel reservation site(eg: Trip advisor), overcoming the limitations of existing methods.
160658E	VIVEKVINUSHANTH	Vivek vin	Chamath Abeysinghe	Query SQL database using a natural language (English/Sinhala) (speech identification)	Program to convert given natural language qry to sql syntax and execute it on a database.
160670H	WEERASINGHA W.	Pinsara	Yasas Senarath	Train Track	Track trains using GPS of users and relay to other users who are registered. The implementation should be effecient for mobile phones (should not use battery power a lot). The expected times to arrive at different stations should also be indicated in the app.
160671L	WEERASINGHE A.M	Ayesh	Bhanuka Mahanama	Acoustic Data Transfer	A plugin or application that support acoustic data transfer. the application should provide security against possible attacks or exploits of acoustic data transfer
160676G	WEERASINGHE J.S	sadeep	Chamath Abeysinghe	App to blur backgrounds of selfies	Add the porttrai mode effect to any selfie.
160677K	WEERASINGHE M.	Tharindu	Indika Perera	Sinhala word learning android app	Spelling game: learn to spell https://play.google.com/store/apps/details?id=com.edubuzzkids.learnspellforchildren
160696R	WIJEGUNARATHN	Kalana	Akhitha Manjitha	Augmented Reality measuring app	A mobile app to take body measurements required in tailoring using an AR camera. (eg .Height, Soulder width, Collar size etc). App should be able to take measurements to the accurcy of 1cm.

160711L	WIJESIRI R.I.M.		Thirasara Ariyaratna	Blockchain based land selling application	Blockchain is very popular for its transaction security and tracability of them. These two features are a perfect match for a land selling application because lands are assets which has increasing value and also purchasing lands should be done with transparency. So a blockchain based land selling application would enable transaction security and also one who is purchasing can traceback the history of the land to clarify any doubts about the land.
160713U	WIJETHUNGA R.M.	Kalana	Chamath Abeysinghe	Chrome extension to manage password using face recognition	In chrome if a password is saved, it can be used by any user currently using the machine. To avoid that, unlock password only if it can verify that the authentic person is using the laptop. Implement a face recognition based password manager.
160719T	WISHWAJITH L.H.T	Tharindu	Yasas Senarath	Tweet Opinion Visualization	Create a platform to visualize (emotions and other information) tweets obtained suing twitter Streaming API over last n number of days. This Visialization should support spacial and temporal aspects. Emotion analysis algorithm should be implemented saperately. Should indicate the intencity of emotion with respect to topics.