Deakin University

Capstone Team Project (B)

OnTrack Submission

Company Objectives and Structure

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s222610398	Aishwarya	Mahajan	
s222508953	Sahana	Gollapalli	
s222356603	Sinan	Kilci	
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s223046759	Abhishek	Chiluka	
s222296609	Mukul Kamalkant	Singh	
s223113345	Subramanya	N S	
s223065159	Mengqian	Gong	
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July 21, 2024

Chameleon

Task 2.1 P – Company Objective and Structure

Executive Summary

Our Mission

Given the complexity of energy application needs today, IoT systems are being designed to address a wide variety of existing problems.

At Chameleon, our mission is to research, create, test, document and deploy IoT-based solutions to enhance life through the application of smart city technologies. This includes the building of smarter cities, homes, transportation, and energy management systems.

Our Structure

Chameleon is structured into three main divisions, focusing on strategic areas of importance:

Chameleon Website (CW)

Electric Vehicle (EV) Adoption Tools (EVAT)

City of Melbourne Open Data (MOP)

Chameleon Website

The Chameleon Website is a user-friendly and informative gateway to the Company, it targets potential clients and the public to showcase the company's initiatives and achievements. The website continues to evolve aimed to enhance user experience and engagement using responsive design, mobile optimisation and SEO strategies. These objectives aim to communicate Chameleons vision and projects to create a dynamic and secure online presence. Furthermore, the project is to be deployed on Google Cloud Platform and have an integrated deployment pipeline.

City of Melbourne Open Data Project

The City of Melbourne Open Data collaborates with The City of Melbourne to enhance knowledge and develop applications for businesses, researchers, and software developers. Through the educational platform 'The Melbourne Open Playground' (MOP), they investigate the potential uses of Open Data, aligning their efforts with Melbourne's Smart City strategies.

EV Adoption Tools

The EV Adoption Tools project is dedicated to promoting the increased adoption of Electric Vehicles (EVs) in Australia. This initiative supports the reduction of fossil fuel dependence, decreases greenhouse gas emissions, and positively impacts the environment. The primary adoption tool is a mobile app that allows user to perform EV charger identification and route navigation according to user vehicle and personal preferences. The EVAT Website also provides EV related information and data science related applications.

Leadership Team

Acting Director: Dr Azadeh Ghari Neiat (Senior Lecturer in Mobile Apps Computing)

Chameleon Website

Senior Leaders: Umair Mohamed Feroze

Junior Leaders: Randi Tamasha Gunasekara Henadeerage Dona, Julian Douglas Holland, Su Myat Win, Adityan Balamuralidharan, Chandrakanth Kunapareddy, Kushani Imanthi Ranasinghe, Divyanga Chathurangi Samarawickrama Lokuhetti, Harshitha Shashidhara, Farit Zafar, Varun Kumar, Haritha Denuwan De Silva Asuramuni

EV Adoption Tools

Senior Leaders: James Davies, Mukul Kamalkant Singh

Junior Leaders: Goutham Krishna Bala Murali Krishna, Shut Keung Chan, John Collins, Nirmal Antony Mariadoss, Hue Minh Nguyen, Barani Shanmugasundaram, Claire Van Gils, Sonam Chewang Dorji, Thenusan Santhirakumar, Eswar Sivan Sethu

City of Melbourne Open Data Project

Data Science:

Senior Leaders: Thomas Alexander Rostov, Akintomiwa James Aremu, Katrine Kit-Ying Chan, Samiha Haque, Sachitha Sadeepa Kasthuriarachch, Manasa Nagaraja, Quoc Bao Ngo, Francis Albert Rusli, Madhuvaishali Thakoor, Venuka Hirushan Wijenayake, Liny Jose Alias, Aishwarya Mahajan, Dinuk Nadishan Kariyawasam Senadheerage

Junior Leaders: Harsh Dwivedi, Emmanuel Clement Anthony, Jnaneshwari Beerappa, Sri Tharaka Sandamal Dadigalage, Sai Priyamvada Kuntamukkala, Awaze Ur Rahaman Mohommed, Chathumini Rashmika Satharasinghe, Samarth Dipakkumar Shah, Wanni Achchige Chathurika Deshani Siriwardena, Adersh Antony Thekekuttu Michael, Wijesinghe Arachchige Uvini Chamathka Wijesinghe, Naga Nikhil Woopalanchi

Web Development:

Senior Leaders: Hoang Duy Vu, Thamasha Galahena Galahahena Mudiyanselage, m, Adrian Thilina Weerasinghe

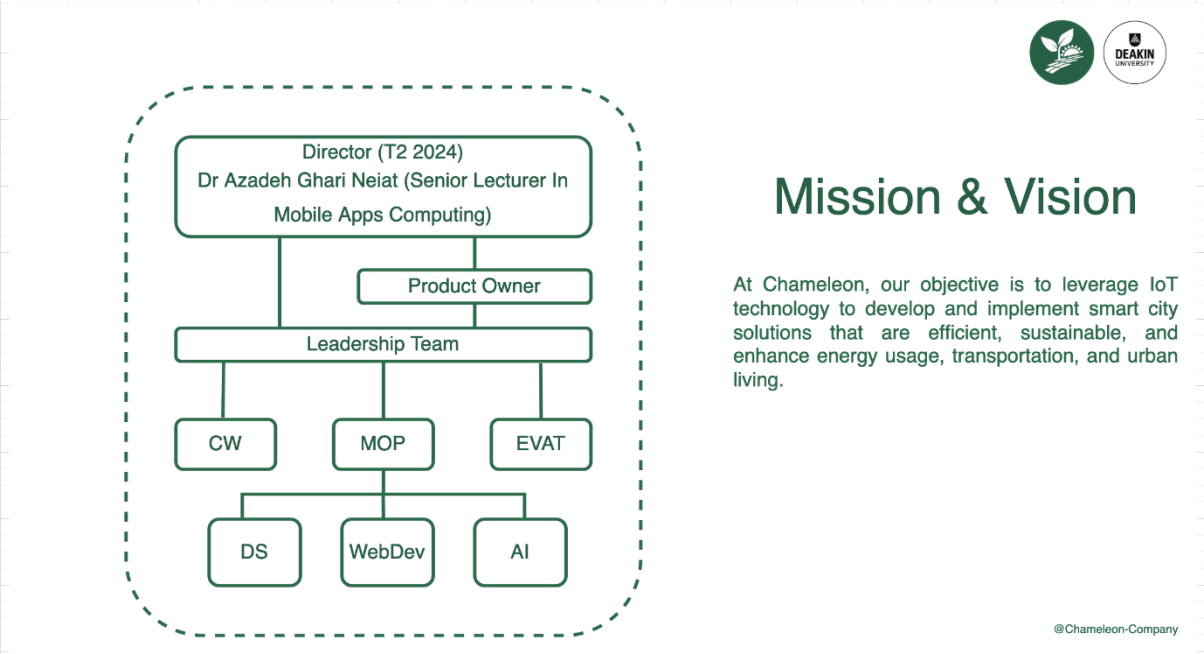
Junior Leaders: Danish Kumar

Artificial Intelligence:

Senior Leaders: Lucas Kocon, Sahana Gollapalli

Junior Leaders: Khoi Nguyen Bui, Logan Guilding, Mobasshar Nomani, Nihar Jalela

Company Structure



Trimester 2 Goals and Objectives

This trimester the City of Melbourne Project seeks to develop its new Artificial Intelligence team to utilize Machine Learning and AI techniques to forecast trends, optimize resource allocation, and improve urban living conditions through intelligent data analysis. In addition, the team will focus on creating new use cases, performing API repointing of old use cases and implementing existing ones to get the site up and running. The website team seeks to further enhance its UX and design (focusing on a more user-friendly experience) and implement multiple backend services (such as MongoDB) as well as transferring from AWS to GCP hosting solutions. The EVAT team will be restructured into an App/Web team and a data science team. The focus for the App/Web team is to rebuild a new Mobile App after unsuccessful attempts in Trimester 1 to debug the existing Mobile app. The Mobile App will focus on providing user specific location data for current EV chargers and provide route navigation services throughout Australia. The data science team will enhance and optimise the current route navigation algorithm and look to identify and build out additional data science related use cases.

Projects Overview

Chameleon Website

Overview

The website serves as a dynamic platform to not only publicize the achievements and progress of Chameleon but also to engage with stakeholders, including clients, partners, investors, and the public. By providing comprehensive information about Chameleon's overarching goals, values, and accomplishments, the website aims to enhance transparency and foster trust among its diverse audience.

Goals and Objectives

The main objectives of the Chameleon company's website are multifaceted, aiming to provide a centralised hub where visitors can access comprehensive information about Chameleon and its subsidiary companies. This one-stop destination is designed to advocate for the company's mission and promote its services while ensuring the website remains visually appealing and user-friendly.

Aims This Trimester

This trimester, our main goals are to enhance the website's usability and engagement. We'll improve the UI/UX across the system, develop the system's backend, optimise images for faster loading on mobile devices, ensure browser compatibility, enhance accessibility, implement a newsletter signup popup, optimise performance, create interactive tools for CRM management, incorporate a user feedback mechanism with an enhanced analytics dashabord, and finally deploy the application on GCP. These efforts aim to provide a seamless and enjoyable experience for all users.

Deliverables

- Enhance all forms with error handling.
- Integrate Post Management.
- Optimise images for faster loading on mobile devices.
- Improve browser compatibility.
- Perform Whitebox and Blackbox testing.
- Optimise website performance.
- Incorporate a user feedback mechanism.
- User roles and permissions.
- Deployment on GCP.
- Pipeline development for improved standards.

Chameleon Website Project Team Members

Name	Student ID	J/S	UG/PG	Team	Lead
Haritha Denuwan De Silva Asuramuni	223131339	J	UG	CW	Yes
Arman Bakhtiariasl	220492498	J	UG	CW	No
Randi Tamasha Gunasekara Henadeerage Dona	222470203	J	UG	CW	Yes
Nicholas Kanakis	221280572	J	UG	CW	No
Stephen Hoang Long Le	218244778	J	UG	CW	No
Moulik Mahajan	224258246	J	UG	CW	No
Ethan Rose	221190328	J	UG	CW	No
Julian Douglas Holland	220330887	S	UG	CW	Yes
Brittany Patterson	219462585	S	UG	CW	No
Su Myat Win	222385178	S	UG	CW	Yes
Sireesha Akurathi	223796895	J	PG	CW	No
Kholud Abdullah O Almutairi	223816048	J	PG	CW	No
Adityan Balamuralidharan	223145266	J	PG	CW	Yes
Mohammad Behbahani Nia	222514502	J	PG	CW	No

Yuvraj Kapoor	**220252511**	**J**	**PG**	**CW**	**No**
Chandrakanth Kunapareddy	**223798216**	**J**	**PG**	**CW**	**Yes**
Bhupendra Pandey	**223249955**	**J**	**PG**	**CW**	**No**
Kushani Imanthi Ranasinghe	**223251652**	**J**	**PG**	**CW**	**Yes**
Divyanga Chathurangi Samarawickrama Lokuhetti	**223590519**	**J**	**PG**	**CW**	**Yes**
Harshitha Shashidhara	**224120377**	**J**	**PG**	**CW**	**Yes**
Haoyang Yu	**218413818**	**J**	**PG**	**CW**	**No**
Farit Zafar	**223632851**	**J**	**PG**	**CW**	**Yes**
Akashdeep	**223040483**	**S**	**PG**	**CW**	**No**
Anena Ghosh	**223792684**	**S**	**PG**	**CW**	**No**
Daniel Blair	**223215521**	**S**	**PG**	**CW**	**No**
Umair Mohamed Feroze	**218118134**	**S**	**PG**	**CW**	**Yes**
Subramanya N S	**223113345**	**S**	**PG**	**CW**	**No**
Varun Kumar	**223758153**	**J**	**PG**	**CW**	**Yes**
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EV Adoption Tools

Overview

The EV Adoption Tools project was initiated with the objective of promoting the widespread adoption of Electric Vehicles (EVs) in Australia. By leveraging innovative tools and strategies, the project seeks to address key barriers to EV adoption, thereby contributing to a reduction in fossil fuel dependency, mitigation of greenhouse gas emissions, and fostering a positive environmental impact on both local and global scales.

Goal and Objectives

One critical factor that affects EV adoption is EV charging infrastructure. EV charger Location, availability and charging speed are key EV charger attributes that impact the user experience and can be a barrier to adoption. Tools to support users navigate and utilise the EV charging network are critical to improve user adoption. At Chameleon the EV Adoption Tools team is focused on developing a mobile App that can provide users with:

- Visibility and information on EV chargers based on current location.
- Route navigation services through the EV charging network.
- User configurable parameters that include EV characteristics (battery size, range) and personal preferences (food preferences, services etc)

To support the mobile app a team of data science team members are continuously enhancing the above applications and researching additional EV related applications. These applications will be available on the EV Adoption Tools website.

Aims this Trimester

In this trimester the EVAT will migrate all task management from 2 Trello boards to a single EVAT MS Planner board. The App / Web team will complete a rebuild of the mobile App. In

previous trimesters project teams have been unsuccessful in restoring the mobile app functionality and as such a decision has been made to rebuild the mobile app.
The critical functionality to be implemented on the mobile app include map-based location services where a user can identify and navigate to an EV charger that meets the user requirements. The mobile app will also be able to provide full point to point navigation services from any starting and ending location in mainland Australia.
The data science team will optimise and enhance the code required to calculate routes throughout the EV charger network. The data science team has grown significantly in this trimester and as such the team will research and assess future use cases for consideration with the product owner.
Finally, the website will be updated to include data science research and use cases. Infrastructure works will be completed such that the website can be hosted on appropriate hosting services and there made available for team members to interact with.

Trimester Deliverables

App / Web Development Team:

- Rebuild the mobile app on an appropriate technical platform.
- Implement user configurable details such as vehicle type and user preferences for charging costs, speed and nearby amenities.
- Implement map navigation services that include nearest charger, nearest charger based on user parameters and point to point navigation services.
- Website infrastructure updates to ensure website is hosted and available for browsing.
- Updates to website to include data science research and use cases.

Data Science Team:

- Optimise data collection for EV charger location data and make available for display on the mobile app.
- Optimise data collection for EV charger amenities data and make available for display on the mobile app.
- Develop data collection for EV characteristics and make available for selection on the mobile app.
- Optimise route navigation services and make available for execution on the mobile app.
- Research and assess additional data science EV use cases.

EVAT Project Members

Name	Student ID	UG/PG	J/S	Team	Lead
James Davies	218377995	PG	S	DS	Yes
Goutham Krishna Bala Murali Krishna	223282399	PG	J	DS	Yes
Shut Keung Chan	222511405	PG	J	DS	Yes
John Collins	223617689	PG	J	DS	Yes
Nirmal Antony Mariadoss	223919703	PG	J	DS	Yes
Hue Minh Nguyen	220466717	PG	J	DS	Yes
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Shubh Uniyal	**223531994**	**PG**	**J**	**App/Web**	**No**
Yuhua Zhao	**221209335**	**UG**	**S**	**App/Web**	**No**
Mukul Kamalkant Singh	**222296609**	**PG**	**S**	**App/Web**	**Yes**

City of Melbourne Open Data Project – Melbourne Open Playground (MOP)

Overview

Since 2014, the City of Melbourne has been at the forefront of Open Data in Australia. In partnership with Deakin, they promote the increased use of their Open Data by businesses, researchers, and developers. As a key component of their smart cities strategy, the Melbourne Open Data Playground (MOP) website will showcase MOP's operations, intelligent data analysis, security details and use cases that align with its goals and objectives.

Goals and Objectives

The project's objective is to develop an educational platform cantered on practical applications of open data, designed for diverse stakeholders such as industry experts, government agencies, and academic scholars. The long-term goals include mining and

tracking the City of Melbourne's open data, offering innovative solutions to the city's challenges through data analysis and AI techniques, increasing data usage rates, and supporting urban smart strategies.

Aims This Trimester

The focus is on assisting the initiation and setup of the newly formed Artificial Intelligence team, systematically addressing each published and upcoming notebook, and modifying and updating previous code to ensure proper functionality when downloaded.

The goal of the Data Science team is to develop a collection of IoT-based use cases that align with the City of Melbourne's three predefined areas of interest: Business Activity, Transport and Safety, and Environment and Wellbeing. The team plans to complete a full set of ready-to-publish use cases while also preparing a backlog for the next trimester, and repointing APIs of old use cases using API v2.1. Additionally, the team will migrate from Trello to Microsoft Planner to enhance project management efficiency, propose and create new use cases, complete unfinished ones, and update the organization in GitHub and MS Teams directories to improve overall workflow and collaboration.

The primary goal of our web development team is to integrate our website with user cases supplied by the Data Science team, enabling easy access through a sophisticated database solution. Additionally, we aim to deploy, rigorously test, and ultimately host the City of Melbourne's website. Our efforts will also extend to enhancing the website's design, framework, and features, ensuring a seamless and engaging user experience.

And finally, the emerging Artificial Intelligence team will seek to create novel AI-integral applications that align with Chameleon's smart city vision of technologies that facilitate for greener and more sustainable living. The team seeks to do this by developing artificial intelligence processes, collecting and annotating data for training and testing, and deploying the trained algorithm into use-case products. The new team will also create new use-cases as a backlog of products to meet any new demand for AI products and organise its workflow assets to create effective work immediately.

Deliverables

Data Science Team

- Migrate from Trello to Microsoft Planner for project management.
- Prepare for the release of analysed use cases that are completed.
- Generate five new ideas for use cases to maintain the team's ongoing productivity.
- Develop three to eight relevant and valuable use cases to be published.
- Continuously update data and APIs for early project cases to ensure the latest analysis, while replacing old files with API v2.1 to enhance the reproducibility of analysis.
- Continue to update and improve the file systems of GitHub and Teams to facilitate efficient navigation and guidance.
- Update old documentation with the latest file updates.
- Manage and upload the large use case files on GitHub.
- Continue to complete the backlog in MS Planner.

Website Development Team

- Publish all completed tasks on Planner.
- Migrate all tasks from Trello to Microsoft Planner for better project management.
- Ensure the establishment and maintenance of a fully functional website with uninterrupted operational capacity.
- Establish a dedicated database and integrate a webpage on the site where the data science team can seamlessly upload their work.
- Enhance the design system by refining symmetry and incorporating more intricate details. The objective is to develop a purpose-driven design that enhances the overall user experience.
- Conduct testing for the website.
- Work in conjunction with AI team to add more features to the website.
- Perform CI/CD pipeline tests on the website.
- Host the completed the website on a webserver (GCP, Azure).
- Make the website more user friendly.
- Add and refine the existing functions of the website.
- Integrate useful figures such as account management functionality and multi-language support within the system, dark and light mode throughout the entire website.
- Ensure the website is responsive across various platforms for seamless user experience on desktop, tablet, and mobile devices.

Artificial Intelligence Team

- Establish a new GitHub repository for AI system files
- Create AI systems to develop intelligent analytics and decision-making algorithms
- Measure bias and variance to determine model accuracy
- Integrate developed models into use cases for MOP reports or develop novel applications

Melbourne Open Data Project Team Members

Data Science Team

Name	Student ID	UG/PG	J/S	Team	Leader
Awaze Ur Rahaman Mohommed	**223640083**	**PG**	**Junior**	**Data Sci**	**Yes**
Alireza Montazeri	**223632922**	**PG**	**Junior**	**Data Sci**	**No**
Chathumini Rashmika Satharasinghe	**223413619**	**PG**	**Junior**	**Data Sci**	**Yes**
Rohang Rashesh Shah	**223640421**	**PG**	**Junior**	**Data Sci**	**No**
Adersh Antony Thekkekuttu Michael	**223969645**	**PG**	**Junior**	**Data Sci**	**Yes**
Taylor Wallis Garlick	**220381199**	**UG**	**Junior**	**Data Sci**	**No**
Sabih Ul Hassan	**221429583**	**UG**	**Junior**	**Data Sci**	**No**

Emmanuel Clement Anthony	223064878	PG	Junior	Data Sci	No
Jnaneshwari Beerappa	223724697	PG	Junior	Data Sci	No
Sabri Serkan Gulluoglu	217249723	PG	Junior	Data Sci	No
Taehwan Jung	223239943	PG	Junior	Data Sci	No
Sahan Chamod Jayalath Pamunuwe Mahavithanage	223822546	PG	Junior	Data Sci	No
Daljeet Kaur	222049265	PG	Senior	Data Sci	No
Mengqian Gong	223065159	PG	Senior	Data Sci	No
Sinan Kilci	222356603	PG	Senior	Data Sci	No
Harsh Dwivedi	222483528	UG	Junior	Data Sci	Yes
Thomas Alexander Rostov	221260666	UG	Senior	Data Sci	Yes
Sri Tharaka Sandamal Dadigalage	223634765	PG	Junior	Data Sci	Yes
Sai Priyamvada Kuntamukkala	223711461	PG	Junior	Data Sci	Yes
Samarth Dipakkumar Shah	223828778	PG	Junior	Data Sci	Yes
Wanni Achchige Chathurika Deshani Siriwardena	223631612	PG	Junior	Data Sci	Yes
Wijesinghe Arachchige Uvini Chamathka Wijesinghe	223607603	PG	Junior	Data Sci	Yes
Naga Nikhil Woopalanchi	218503534	PG	Junior	Data Sci	Yes
Akintomiwa James Aremu	222497446	PG	Senior	Data Sci	Yes
Katrine Kit-ying Chan	221375343	PG	Senior	Data Sci	Yes
Samiha Haque	223935632	PG	Senior	Data Sci	Yes
Liny Jose Alias	223057444	PG	Senior	Data Sci	Yes
Dinuk Nadishan Kariyawasam Senadheerage	223237065	PG	Senior	Data Sci	Yes

Sachitha Sadeepa Kasthuriarachchi	223270464	PG	Senior	Data Sci	Yes
Aishwarya Mahajan	222610398	PG	Senior	Data Sci	Yes
Manasa Nagaraja	222586756	PG	Senior	Data Sci	Yes
Quoc Bao Ngo	220313209	PG	Senior	Data Sci	Yes
Madhuvaishali Thakoor	218335436	PG	Senior	Data Sci	Yes
Francis Albert Rusli	223045645	PG	Senior	Data Sci	Yes
Venuka Hirushan Wijenayake	223048223	PG	Senior	Data Sci	Yes

Web Development Team

Name	Student ID	UG/PG	J/S	Team	Leader
Tyler Sheaf	221154888	UG	Junior	Web	No
Minh Khoi Pham	220189994	UG	Senior	Web	No
Muhammad Ahmad Rahman	222035605	UG	Senior	Web	No
Chaya Shiv	221071557	UG	Senior	Web	No
Pranjal Singh	218614477	UG	Senior	Web	No
Hoang Duy Vu	222461495	UG	Senior	Web	Yes
Mihir Arvindhbai Dobariya	223535953	PG	Junior	Web	No
Rahda Krishna Gampa	223937368	PG	Junior	Web	No
Sachintha Chanuka Shanthadewa Janguge	222625866	PG	Senior	Web	No
Muhammad Subktageen Ahmad Janjua	223723734	PG	Junior	Web	No
Upeksha Dilshan Karapitiya Pathiranage	223656754	PG	Junior	Web	No
Danish Kumar	223629209	PG	Junior	Web	Yes

Joshen Shevin Mihindukulasuriya Patabedige F	223793401	PG	Junior	Web	No
Saiteja Ravella	224013556	PG	Junior	Web	No
Venkata Raghava Naveen Veedhula	224099224	PG	Junior	Web	No
Nipun Udara Yahathugoda Badalge	223456323	PG	Junior	Web	No
Abhishek Chiluka	223046759	PG	Senior	Web	No
Thamasha Galahena Galahahena Mudiyanselage	223043446	PG	Senior	Web	Yes
Suraj Kuwar	223183442	PG	Senior	Web	No
Jiaqi Li	221105067	PG	Senior	Web	No
Usman Tariq	217034263	PG	Senior	Web	No
Adrian Thilina Weerasinghe	222481445	PG	Senior	Web	Yes
Arman Ajimali Dhamani	221301447	UG	Senior	AI	No

Artificial Intelligence Team

Name	Student ID	UG/PG	J/S	Team	Leader
Arman Ajimali Dhamani	221301447	UG	Senior	AI	No
Brock Dylan Alexiadas	220256787	UG	Senior	AI	No
Ethan Jason Longmire	222369928	UG	Junior	AI	No
Haixin Liao	223693774	PG	Junior	AI	No
Hamza Nadeem Rana	223703819	PG	Junior	AI	No
Hariprasad Pulickal Venugopal	223736039	PG	Junior	AI	No
Hnin Ei Khaing	221021624	PG	Junior	AI	No
Jing Kang	223765611	PG	Junior	AI	Yes
Kaimon De Bruijne	221287183	UG	Junior	AI	No
Khoi Nguyen Bui	222515797	UG	Junior	AI	Yes
Laksh Gilhorta	222437252	UG	Senior	AI	No
Logan Guilding	220589655	PG	Junior	AI	Yes
Lucas Kocon	218510242	UG	Senior	AI	Yes
Mobassher Nomani	222499162	PG	Junior	AI	No
Nancy Njoki Mbugua	221080099	PG	Junior	AI	No
Nauman Abid	223429271	PG	Junior	AI	No

Nihar Rameshbhai Jalela	**223040509**	**PG**	**Junior**	**AI**	**Yes**
Qasim Zia	**223778177**	**PG**	**Junior**	**AI**	**No**
Sahana Gollapalli	**222508953**	**PG**	**Senior**	**AI**	**Yes**
Sarfaraz Syed	**222599005**	**PG**	**Junior**	**AI**	**No**
Suraj Radhakrishnan Nair	**223606797**	**PG**	**Junior**	**AI**	**No**
Tolulope Ebenezer Akin-dada	**223022696**	**PG**	**Senior**	**AI**	**No**
Ziqin Zhao	**217590332**	**PG**	**Junior**	**AI**	**No**