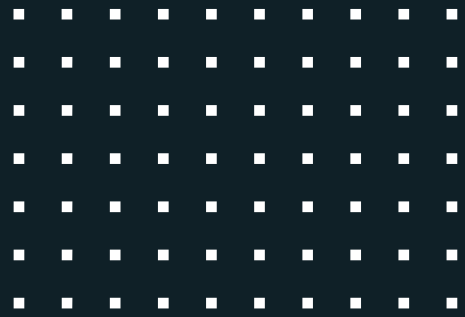


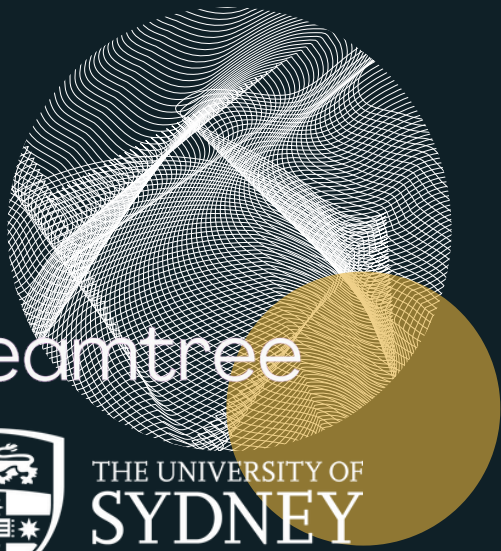


**Australian
Medivate
Data
Challenge**



Australian Medivate Data Challenge

Sponsorship Prospectus 2024



Beamtree



THE UNIVERSITY OF
SYDNEY

USU | CLUBS



digital health crc



Sydney University Society
of Medical Innovation

We would like to acknowledge the Traditional Custodians of the lands where we work and live. We celebrate the diversity of Aboriginal peoples and their ongoing cultures and connections to the lands and waters of Australia.

We pay our respects to Elders past, present and emerging and acknowledge the Aboriginal and Torres Strait Islander people that contributed to the development of this event.

Event Overview

Unlocking health data, analytics and AI

The Australian Medivate Data Challenge is a four-day nation-wide competition where teams address real world challenges, developing their solution to one of the provided problem statements and pitching their cases before a panel of judges.

Hosted by the Sydney University Society of Medical Innovation in partnership with the Digital Health CRC, this nation-wide competition provides both participants and sponsors with an incredible networking and industry-experience opportunity.

Participants will be able to engage with complex challenges using a specially-curated resource library under the professional guidance of our mentors, and get a taste for problem solving in the health-data world.

About SUSMI

Sydney University Society of Medical Innovation (SUSMI) was founded in 2019 to give students a platform to develop and apply their skills and passion to the medical-technology industry. With a focus on interdisciplinary and diverse collaboration, our members are from a wide range of academic disciplines and backgrounds. To empower our members to make an impact, we are discovering new ways of bridging the gap between students and professionals, providing them with opportunities to collaborate, learn and innovate through networking events, workshops, and challenges such as this one.

About DHCRC

The Digital Health Cooperative Research Centre (DHCRC) fosters innovation and facilitates the greater utilisation of data and data technologies in healthcare to improve health outcomes, increase efficiencies in health and aged care delivery, and support the growth of a competitive Australian digital health technology industry. They are interested in projects that lead to sustainable impacts on health outcomes and contributions to the digital economy. DHCRC are funded through the Commonwealth Department of Industry, Science and Resources' Cooperative Research Centres Program, and are supported by more than 60 participant organisations across the university, healthcare and technology industries.

About Beamtree and USYD Collaboration

The partnership between Beamtree and the University of Sydney was launched in 2023 to explore novel applications of health data that advance sustainable, high-quality health care globally. Through cutting-edge research in biomedical informatics and artificial intelligence, the collaboration aims to enhance the quality of data for research and benchmarking purposes, facilitate access to patient data for clinical decision support systems, and leverage machine learning techniques for analysing patient data. This partnership has helped provide the challenges for this event!

Event Brief and Goals

SUSMI's flagship event, the Medivate hackathon, is an annual competition that brings together passionate students, industry professionals, and leaders in the medical field, to accelerate medical innovation by presenting real-world challenges to upcoming university students. This year however, we've taken it a step further to become the Australian Medivate Data Challenge in partnership with DHCRC, hosted in number of states across Australia in collaboration with other university student societies.

Over the four day competition (**1st-4th July 2024**), teams of students will apply their creativity and technical skills to solve a contemporary healthcare problem. A resource library of live-stream and pre-recorded webinars will be provided, as well as real-time support through our scheduled mentorship sessions - where teams can bounce their ideas off seasoned industry professionals and refine their ideas. On the final day, teams pitch their ideas to a panel of judges who will assess presentations based on feasibility, and innovation.

As well as potential cash prizes, this competition serves as an opportunity for students at universities all across Australia to network with like-minded people, make connections in the industry, and put their skills to the test to try and attempt to solve a complex issue still being addressed today.

Data Information and Challenges

For the Australian Medivate Data Challenge 2024, participants will use the data documentation of two complex and large data sets, MIMIC-IV and All of Us, to address the one of the presented challenges.

MIMIC-IV, or the Medical Information Mart for Intensive Care, is a de-identified database that provides critical care data from a large tertiary hospital in Boston. MIMIC-IV has been integral in driving large amounts of research in clinical informatics, epidemiology, and machine learning. The All of Us Program led by the United States' National Institute of Health is building one of the largest biomedical data resources of its kind. The program's research hub seeks to create a diverse database that reflects the US' population.

Using these resources, teams will have the opportunity to tackle a challenge from one of the following themes:

Clinical Decision Support Theme

- a. Deriving a mean arterial pressure guidelines to avoid septic shock.
- b. Supporting patients navigating rare and complex conditions.
- c. Using ICU data for timely interventions in trauma care.
- d. Using deep learning to understand sequential care events.

Resource Optimisation Theme

- a. Improving automated clinical coding systems for efficient documentation.
- b. Using a predictive model to reduce hospital readmissions.
- c. Making automated patient screening for resource allocation and improved care.

Consumer and Equity Theme

- a. Reducing the gender bias in diagnosis of ADHD and autism.
- b. Using AI to understand cancer risk for African American males.
- c. Understanding chronic pain in gender-diverse communities.

If none of these challenges resonate with teams, participants are welcome to choose another health problem that can be addressed by data!

Sponsorship Opportunity

SUSMI is committed to supporting teams to ensure every participant has an enjoyable and rewarding experience. SUSMI requires financial support to primarily **provide cash prizes to winners** and secondarily to run the event. As part of this event, we accept sponsorships from a wide variety of organisations in two tiers – Sponsor and Major Sponsor.

Benefits and Opportunities



As a sponsor your branding would be included in all communication and events, increasing recognition and allowing for a national reach.



Our events are an opportunity for you to identify potential talent from a pool of passionate students searching for industry experience.



As a sponsor, you are able to guide future leaders in medical innovation and advance industry standards.

Sponsorship Tiers

	Major Sponsor	Sponsor
	\$1,500	\$750
Contribute to the cash prizes provided to winners	X	X
Opportunity to have company representatives as mentors or judges	X	X
Providing merch to distribute at the event and have your logo on the website	X	X
Invitation to future networking events	X	X
Short introduction at the event by a company representative	X	
Dedicated blurb on the website	X	

Interested? Contact Us!

We hope this document has given you an idea of what we have to offer with the 2024 Australian Medivate Data Challenge; and we'd love to hear your thoughts.

The best way to contact anyone at SUSMI is by email at **medivate.datathon@gmail.com** and CCing **annabelleflannery@gmail.com** and **sadiqdohad@gmail.com**

Please reach out if you have any questions or are interested in becoming a sponsor! We will be sure to get back to you as soon as we can.

Annabelle Flannery
President

Sadiq Dohadwalla
Vice President (External)