"Through analytics, we derive game-changing insights from data. This facilitates decision-making and enhances business competitiveness." - Dr. Loke Chok Kang, Principal Analyst (HR Intelligence), Strategic Planning & Research, Public Service Division, Prime Minister’s Office - B.Sc. (Hons) in Statistics and Applied Mathematics (2005); Ph.D. in Statistics (2012)

"I build computational models driven by advanced analytics. This enables us to deliver the right drugs at the right prices to patients." - Ivan John Clement, Data Scientist (R&D and Real-World Evidence), MSD Innovation Hub (Singapore) - B.Sc. (Hons) in Computational Biology (2013); M.Sc. in Management of Health Industries (2015), ESSEC Business School

"Through Big Data analysis technologies, we provide reliable weather forecasts that ensure the safety of our clients’ offshore marine operations." - Arnold Doray, Chief Executive Officer, Terra Weather - B.Sc. in Physics (1994); Master of Technology in Knowledge Engineering (2002)

"We empower small and medium businesses by providing tailor-made insights and artificially intelligent analytics tools." - Sriram Rangarajan, Founder, HappyData Pte Ltd - B.Sc. (Hons) in Chemistry (2009)

"We provide industry-leading data analytics cloud solutions uniquely designed for Asian businesses. This addresses an emerging market need." - Chan Kailin, Co-Founder, AlfaCloud HK - B.Appl.Sc. in Computational Finance (2004)

"Apart from the growing demand for data science-related skills in the future, I believe the scope of application of these skills is vast. I like this flexibility." - Rayakar Achal Ajeet

"The course covers a wide range of skills that are relevant in the workplace and economy of the future, such as statistical analysis, programming and creative problem solving." - Guai Zi Wei

"Though analytics, we derive game-changing insights from data. This facilitates decision-making and enhances business competitiveness." - Dr. Loke Chok Kang, Principal Analyst (HR Intelligence), Strategic Planning & Research, Public Service Division, Prime Minister’s Office - B.Sc. (Hons) in Statistics and Applied Mathematics (2005); Ph.D. in Statistics (2012)

"I build computational models driven by advanced analytics. This enables us to deliver the right drugs at the right prices to patients." - Ivan John Clement, Data Scientist (R&D and Real-World Evidence), MSD Innovation Hub (Singapore) - B.Sc. (Hons) in Computational Biology (2013); M.Sc. in Management of Health Industries (2015), ESSEC Business School

"Through Big Data analysis technologies, we provide reliable weather forecasts that ensure the safety of our clients’ offshore marine operations." - Arnold Doray, Chief Executive Officer, Terra Weather - B.Sc. in Physics (1994); Master of Technology in Knowledge Engineering (2002)

"We empower small and medium businesses by providing tailor-made insights and artificially intelligent analytics tools." - Sriram Rangarajan, Founder, HappyData Pte Ltd - B.Sc. (Hons) in Chemistry (2009)

"We provide industry-leading data analytics cloud solutions uniquely designed for Asian businesses. This addresses an emerging market need." - Chan Kailin, Co-Founder, AlfaCloud HK - B.Appl.Sc. in Computational Finance (2004)

"Apart from the growing demand for data science-related skills in the future, I believe the scope of application of these skills is vast. I like this flexibility." - Rayakar Achal Ajeet

"The course covers a wide range of skills that are relevant in the workplace and economy of the future, such as statistical analysis, programming and creative problem solving." - Guai Zi Wei

"I provide data-driven solutions for clients across the Asia Pacific in diverse industries. I blend the art and science of analytics to ‘connect the dots’ between People, Products and Profits." - Epi van der Meulen, Founder-Partner, Red & White Consulting Partners LLP - B.Sc. (Hons) in Meteorology (1999); M.Sc. in Statistics (2002)

"We empower small and medium businesses by providing tailor-made insights and artificially intelligent analytics tools." - Sriram Rangarajan, Founder, HappyData Pte Ltd - B.Sc. (Hons) in Chemistry (2009)

"We provide industry-leading data analytics cloud solutions uniquely designed for Asian businesses. This addresses an emerging market need." - Chan Kailin, Co-Founder, AlfaCloud HK - B.Appl.Sc. in Computational Finance (2004)

"Apart from the growing demand for data science-related skills in the future, I believe the scope of application of these skills is vast. I like this flexibility." - Rayakar Achal Ajeet

"The course covers a wide range of skills that are relevant in the workplace and economy of the future, such as statistical analysis, programming and creative problem solving." - Guai Zi Wei

"I provide data-driven solutions for clients across the Asia Pacific in diverse industries. I blend the art and science of analytics to ‘connect the dots’ between People, Products and Profits." - Epi van der Meulen, Founder-Partner, Red & White Consulting Partners LLP - B.Sc. (Hons) in Meteorology (1999); M.Sc. in Statistics (2002)

"We empower small and medium businesses by providing tailor-made insights and artificially intelligent analytics tools." - Sriram Rangarajan, Founder, HappyData Pte Ltd - B.Sc. (Hons) in Chemistry (2009)

"We provide industry-leading data analytics cloud solutions uniquely designed for Asian businesses. This addresses an emerging market need." - Chan Kailin, Co-Founder, AlfaCloud HK - B.Appl.Sc. in Computational Finance (2004)

Our Students
Students from our first intake share their learning outcomes from the programme.

"I provide data-driven solutions for clients across the Asia Pacific in diverse industries. I blend the art and science of analytics to ‘connect the dots’ between People, Products and Profits." - Epi van der Meulen, Founder-Partner, Red & White Consulting Partners LLP - B.Sc. (Hons) in Meteorology (1999); M.Sc. in Statistics (2002)

"We empower small and medium businesses by providing tailor-made insights and artificially intelligent analytics tools." - Sriram Rangarajan, Founder, HappyData Pte Ltd - B.Sc. (Hons) in Chemistry (2009)

"We provide industry-leading data analytics cloud solutions uniquely designed for Asian businesses. This addresses an emerging market need." - Chan Kailin, Co-Founder, AlfaCloud HK - B.Appl.Sc. in Computational Finance (2004)
The Data Science and Analytics programme offered by the Department of Mathematics and the Department of Statistics and Applied Probability in the Faculty of Science, in conjunction with the Department of Computer Science in the School of Computing, is the first in Singapore.

This four-year direct Honours programme is designed with sufficient technical depth to equip graduates with the ability to develop novel analytical tools for new scientific applications and industry problems that will emerge in future.

- Multidisciplinary curriculum: A key facet is the interdisciplinary nature of the programme. You will read modules in Mathematics, Statistics and Computer Science, and be exposed to the interplay among these three key areas in the practice of data science.
- Deep domain knowledge: In the third and fourth years of study, you will gain in-depth exposure to computation and optimisation, computer algorithms, database and data processing, data mining and machine learning and high-dimensional statistics.
- Experimental learning: You will undertake a capstone module that is industry-driven, where you will have the opportunity to work on research and projects that are related to research and industry.
- Global exposure: You can participate in a range of study abroad and student exchange programmes at over 300 partner institutions around the world.

Admission Requirements
Applicants should have a very good pass in H2 Mathematics and a good pass in H2 Biology or H2 Chemistry or H2 Physics or H2 Computing.

Varied Career Prospects
Graduates of this programme will have career opportunities as data science professionals in the public sector which includes Smart Nation work, as well as in diverse industries where there is growing need for extensive data collection, processing and analyses. These include biomedical sciences, clear technology, consumer businesses, data science and analytics, e-commerce, finance, healthcare, infocommunications, manufacturing, marketing, re/insurance, safety and security, technology, telecommunications, transportation etc.

“Data and analytics will be critical to what GovTech hopes to achieve in building a Smart Nation and transforming digital government.”
- Dr Yaacob Ibrahim, Minister for Communications and Information, Launch of Infocomm Media 2025, 9 August 2015

“Data allows Singapore to transcend our intrinsic limitations of geography and resources. Digitalisation offers businesses an effective means to reach out to global markets.”
- Chan Chun Sing, Minister, Prime Minister’s Office and Co-Chair, Subcommittee on Future of Connectivity, Economy Report, 9 February 2017