



# BIZ ANALYTICS

SEPTEMBER 2022 QUARTERLY NEWSLETTER

Another academic year has gone by, as we welcome yet another batch of students into the Business Analytics community. Much has happened thus far.

From the easing of travel restrictions, to the lifting of COVID-19 restrictions for face-to-face activities nationwide, we now seek a sense of normalcy from before.

As we ease into the resumption of face-to-face activities and events, this issue brings an update of programmes held thus far, and more to come. Get ready for the exciting months ahead!

## *Sept 2022 Issue*

ASEAN – Data Science Explorers

Industry Talk – Mr. Traci Lim

Sale of BA T-shirts

Welfare Pack – Arriving in Nov

Freshmen Welcome Party 2022



**PREPARED BY:**

**Joash Devanandan, Shannon Fernandez & Janice Wong**

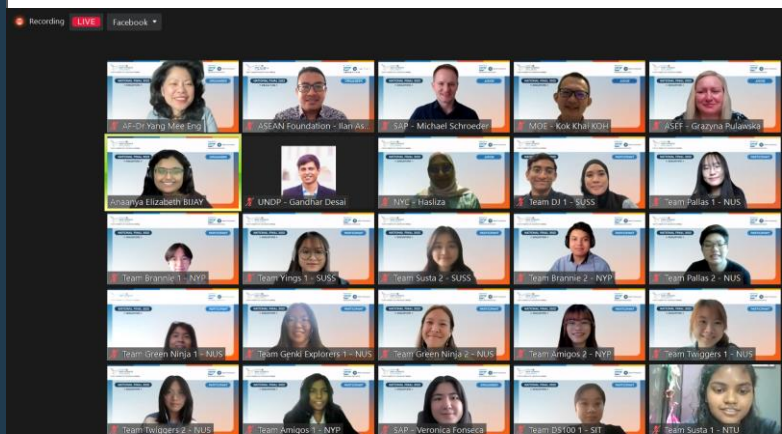
continued from previous page



## ASEAN Data Science Explorers (ADSE)

The ASEAN Data Science Explorers (ADSE) is an ASEAN-wide competition organised jointly by the ASEAN Foundation and SAP. The annual ADSE competition aims to empower the youth with data analytics skills and other relevant skills such as problem-solving, critical thinking, analytical thinking, collaboration, and communication skills. It inspires the youth to take part in tackling pressing socio-economic issues across the region through data-driven proposals that will contribute to the achievement of the UN Sustainable Development Goals (UN SDG) within the region.

Using SAP Analytics Cloud (SAC), participants developed data analytics storyboards and/or proposals, and chose one issue (in ASEAN across the UN SDGs) to solve through their data analytics storyboard. Participants were required to gather relevant datasets to analyse using SAC to develop the storyboard. Teams selected to present at the National Finals were then required to present their storyboards to the esteemed judges.



*Participants of the ADSE National Finals (Singapore) with the judges and representatives from ASEAN Foundation and SAP. Credits: ADSE*

continued from previous page



## ASEAN Data Science Explorers (ADSE)

This year, over 250 teams across ASEAN submitted their storyboard entries and ten teams from each ASEAN country were selected to participate in the respective National Finals. We are pleased to share that, out of the ten teams in Singapore, three teams had four Year 2 Business Analytics (Full Time) students participating in the National Finals. They are:

Team DJ: **Deanna Haifitri (SUSS)** and **Joash Devanandan (SUSS)**

Team Susta: **Karen Tan (SUSS)** and Janani Krishnamurthy (NTU)

Team Yings: **Peng Jingying (SUSS)** and Ng Ying (SMU)



*The presentations of Team DJ, Team Susta and Team Yings.*

*continued from previous page*

Among the top three winners for the ADSE National Finals, Karen's Team Susta emerged as the first runner-up and Jingying's Team Yings emerged as the winners of the ADSE National Finals. We would like to congratulate Team Yings, Team Susta, and Team DJ for being selected and participating in the ADSE National Finals, and for their hard work and effort in preparing their presentations.

Here was what all three teams shared about their ADSE experiences:

*"We joined the ADSE to find ways we can make an impactful change in ASEAN. Amidst COVID-19, we felt that ASEAN needed to be more self-reliant, sustainable and prepared for crises to become a shining beacon of sustainability and resilience to the world. Hence, we proposed to diversify trade, increase self-reliance through upskilling, increase government support to promote green initiatives, and develop IT infrastructure across ASEAN. During ADSE, we learned how SAP Analytics Cloud presents insightful information about an issue alongside recommendations in a non-technical aspect. Furthermore, the ADSE gave us networking opportunities with representatives from SAP, ASEAN Foundation and the judges, with whom we interacted during the National Finals. We felt that the skills (analytical, storytelling and problem-solving) that we learned from ADSE would enable us to be better presenters and users of data to convince and make a change for the better good of society."*

### **Deanna Haifitri and Joash Devanandan (Team DJ), Finalists - ADSE National Finals**



*Year 2 Business Analytics students presenting their storyboards. From Left to Right, Peng Jingying, Karen Tan, Joash Devanandan and Deanna Haifitri. Credits: ADSE*

*continued from previous page*

*“Through the ADSE, we were able to discover the current pressing social and economic issues in ASEAN across the six different UN SDGs, and brainstorm possible solutions to address them. We realised the importance of evaluating the feasibility of the business plan of our solutions and gained confidence to voice our opinions on global issues. The ADSE provided an opportunity for us to harness SAP Analytics Cloud, where we brought data and visualisations together to tell the story of the issue and help discover insights hidden within the data. We were new to this software, but we had a great experience learning how to utilise the data sets and incorporating the insights gathered into our storyboards. ADSE also helped us sharpen our storytelling skills, enabling us to tell compelling stories. Being passionate about data analysis and driven to make a change, awareness was raised on key issues in ASEAN and we came up with solutions that could impact the lives of people.”*

***Karen Tan (Team Susta), First Runner-Up - ADSE National Finals***

*“We decided to join ADSE to apply theoretical knowledge that we had learned from school to practical socio-economic issues that affect the community we belong to. ASEAN is a crucial global player to enact good change. We wanted to curate solutions that could connect stakeholders across ASEAN to effect good changes. ADSE exposed us to the various UN SDGs and the pressing problems present in our society; more specifically, the increasing demand for green jobs. Therefore, in our solution, we hope to build a sustainable green economy by matching green talents to green jobs and fostering green partnerships to meet demand. This experience allowed us to learn technical skills of data visualisation using SAP Analytics Cloud, and also honed the soft skills of critical thinking and being analytical. As we advance to the regionals, we are currently attempting to animate our graphs with R code in the Cloud platform!”*

***Peng Jingying (Team Yings), Winner - ADSE National Finals***

continued from previous page



## ASEAN Data Science Explorers (ADSE)

On 12 October 2022, Team Yings represented Singapore at the ADSE Regional Finals in Phnom Penh, Cambodia. The ADSE Regional Finals was streamed live on the ASEAN Foundation's Facebook page, where the saved video of the Finals can be found. We would like to congratulate both Jingying and Ng Ying for embarking on this journey and representing Singapore at the ADSE Regional Finals in Phnom Penh!

Keep a look out for next year's edition of the ADSE and do consider signing up for it to make a change in the ASEAN region, while picking up important analytical, storytelling, analytics, and presentation skills along the way!

Website: <https://aseandse.org>


Instagram: @aseanfoundation



*Her Excellency Ambassador Kok Li Peng, Singapore's Permanent Representative to ASEAN announcing the winners of the ADSE Singapore National Finals. Credits:*

*ADSE*

*continued from previous page*




**SUSS BAIG Industry Talk**


**Mr. Traci Lim**  
Machine Learning Engineer,  
SAP

Currently working at software solutions company, SAP, Mr. Traci Lim was not only exemplary in his education, but was also able to display his broad knowledge and expertise in the tech industry by putting them into practice. Applying the technical skills that he has acquired, he has been involved in the creation and contribution of several impressive tech-related projects.

Come sit down with us and find out how you can begin your very own data project, as well as pick up some essential tips on Python's best practices!



Tuesday, 30<sup>th</sup> August 2022  
7:00pm | SUSS  
Seminar Room C.4.12



SCAN ME  
Sign up now!

We take a look back at our first ever face-to-face industry talk with Mr Traci Lim and 2 other guests from SAP who shared on how to better manage our own Python projects, as well as tips on landing internships and careers in tech-related roles.

## Industrial talk with Mr Traci Lim, Mr Low Wei Teck & Mr Peh Boon Chong



Mr Traci Lim is a Machine Learning Engineer working at a software solutions company, SAP. He is exemplary in his education and applying his broad knowledge and expertise in the tech industry. He shared several factors on the right mindset as an underdog university student, and how to better manage that mindset positively, which can go a long way in the tech industry. He also shared several pointers to help bridge that advantage as the underdog university student, which included advice such as creating a GitHub profile with coding projects and taking on tech-related internship roles. Mr Traci further advised on the required skills and coding languages needed for the diverse roles in the tech industry, as well as their hiring practices from his observations, and red flags to look out for in the various hiring stages. These included the lack of a Github profile (which may indicate to the hiring manager that “you do not code outside of school, and don’t know version control”) and having code correctness issues (which may indicate that “you don’t understand your code”). Along with his 2 guests, Mr Traci also provided a checklist on how to prepare for the tech industry, such as tips on how to embark on more tech projects to build our CVs, practising through online coding sites, and learning how to use Github effectively.

*continued from previous page*

## Sale of BA T-shirts

As we approach the start of a new term, we hope that you have been coping well in school so far! BAIG held its first ever merchandise sale (selling Business Analytics-branded T-shirts) from 6 - 13 August 2022. The T-shirts come in two different colours (forest green and dark grey) and two different materials (cotton and dri-fit). We would like to take this opportunity to thank everyone who has placed an order and supported our T-shirt sale! We look forward to seeing you rock your Business Analytics T-shirts on campus. For those who have missed out on this sale, stay tuned to our Instagram page @suss\_baig and our Telegram Announcements page for constant updates, and make sure to pick up some Business Analytics-branded merchandise during our upcoming sales!

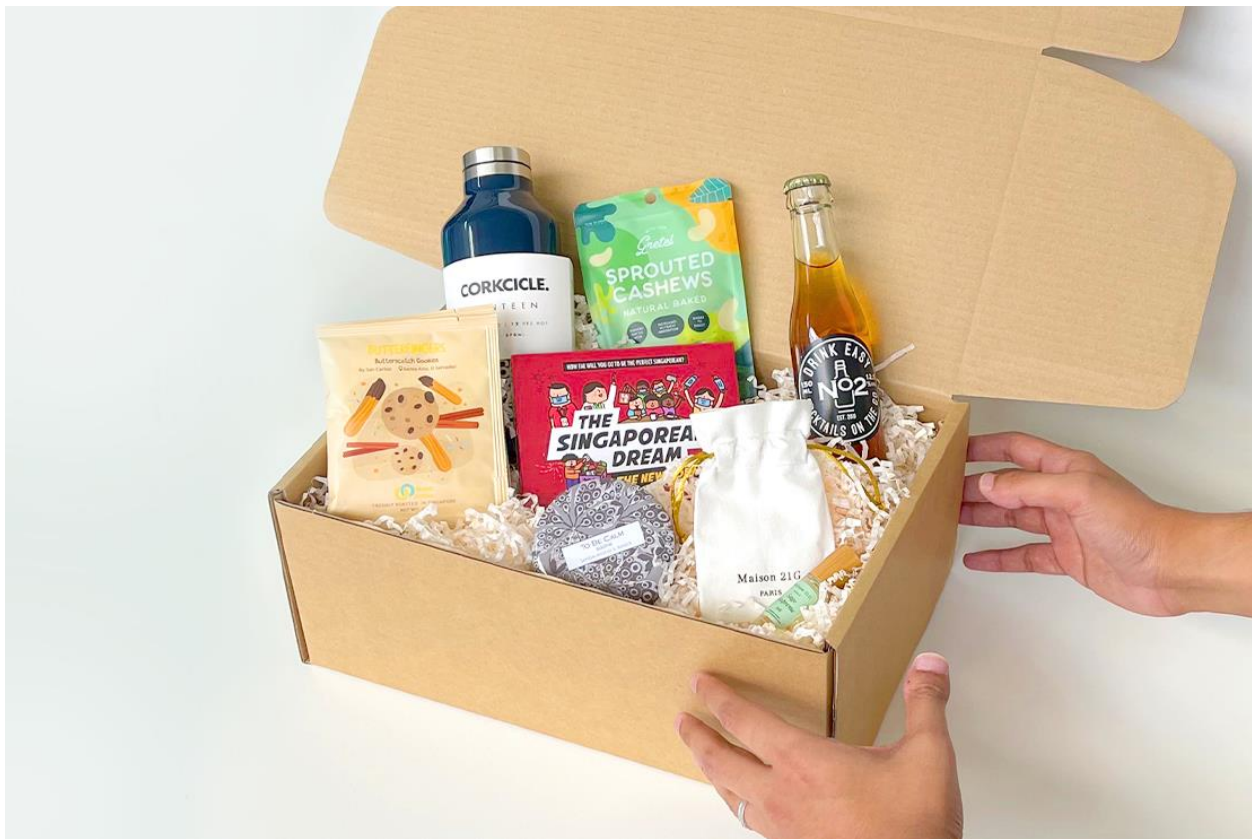
What Business Analytics-branded merchandise would you like to see next? Feel free to let us know your suggestions!





*continued from previous page*

# Upcoming BA welfare pack



*Image Source: <https://merewards.sg/stories-details/399/affordable-care-package-gifts-ideas-for-your-loved-ones-in-singapore>*

Do look forward to our welfare pack distribution that is happening in early November, filled with goodies to cheer you on in your hustle for exam preparations! 🎲 📖

More information will be released in the following weeks via our communication channels. Stay tuned!

*continued from previous page*



# Freshmen Welcome Party 2022

The past couple of years have been a challenge for many of us because of the recent COVID-19 pandemic. The strict safety precautionary measures and restrictions have made it difficult to conduct a large-scale orientation programme that involved group activities and face-to-face interactions. However, as we slowly recover and transition towards a post-pandemic environment, Business Analytics Interest Group (BAIG) was finally able to organise and host our first-ever, physical, orientation programme (Freshmen Welcome Party (FWP) 2022) for the incoming batch of freshmen on 23rd July 2022.



The FWP had an exciting line-up of events that were packed with games and interactive sharing sessions by our fellow seniors. The event provided all participating freshmen with the opportunity to have a fun-filled and eventful day, forge new friendships and learn more about life at SUSS.

*continued from previous page*

# Freshmen Welcome Party 2022



**From top to bottom:** Panel sharing by BAIG EXCO, Amazing Race - 'Chopsticks' station, Amazing Race - 'Can?' station

The FWP started off with an informative and interactive sharing session by our Head of Programme, Associate Professor James Tan, who welcomed the incoming freshmen. This was followed by an academic briefing and panel discussion conducted by BAIG seniors and Executive Committee of BAIG. With topics ranging from important academic matters to tips for doing well in school, the freshmen were equipped with useful knowledge and valuable advice that would help them throughout their university life.

The second component of the FWP kick-started in a light-hearted manner with various games and activities. This allowed the freshmen to be introduced to peers within the course and build rapport with each other. The highlight of the entire event was the 'Amazing Race'. This activity consisted of 5 station games that enabled different teams of freshmen to challenge one another in activities such as 'Pong' (Tic-Tac-Toe Beer Pong), 'Chopsticks' (Chopsticks & Small Objects), Wrecking Ball, Can? (The Can challenge), and Flip! (Flip-The-Cone). These games were well received by the freshmen and allowed the freshmen to bond with each other.

At the end of the event, all participants were given a reusable BSBA-branded tote bag that included delicious goodies to commemorate the end of the FWP and the start of their university journey.

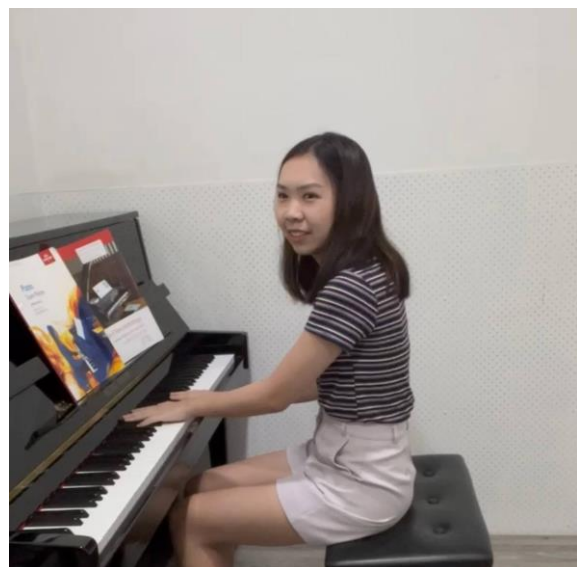


*continued from previous page*

## Let's take a look at what some of the freshies have to say about the FWP!

### **Why did you choose to join FWP?**

I joined FWP to network and find out more about SUSS's curriculum structure!



### **Which activity did you enjoy most?**

The 'blow wind blow' activity was most engaging for me.

### **How did you feel about the experience, as this is the first FWP held since the pandemic occurred?**

I felt that it was fun and a good opportunity to meet my fellow course mates as there isn't much opportunity for such a big cohort to meet up.

### **Would you recommend future freshies to join similar events organised in the future?**

Yes!!!

*Grace, Business Analytics Student of July 2022 intake*

### **Why did you choose to join FWP?**

I chose to join the FWP because I wanted to make friends and expand my social circle.



### **Which activity did you enjoy most?**

The activity I enjoy the most is the games time such as blow wind blow.

### **How did you feel about the experience, as this is the first FWP held since the pandemic occurred?**

It was fun and engaging as it's been a long time since interacting with a big crowd of people.

### **Would you recommend future freshies to join similar events organised in the future?**

Yes, definitely!

*Hui Jing, Business Analytics Student of July 2022 intake*

*continued from previous page*



## **To Future Business Analytics students**

Now that you've heard about the exciting orientation programmes organised by BAIG, begin your SUSS journey by joining us for our next orientation programme! You would not want to miss out on this opportunity to make new friends, network with seniors, create memories and gain advice that will help your university life!

*continued from previous page*

## Solution to Mini Python Challenge (June 2022 Issue)

Given an array `nums` containing `n` distinct numbers in the range `[0, n]`, return the only number in the range that is missing from the array.

Example 1:

Input: `nums = [3,0,1]`

Output: 2

Explanation: `n = 3` since there are 3 numbers, so all numbers are in the range `[0,3]`. 2 is the missing number in the range since it does not appear in `nums`.

Example 2:

Input: `nums = [0,1]`

Output: 2

Explanation: `n = 2` since there are 2 numbers, so all numbers are in the range `[0,2]`. 2 is the missing number in the range since it does not appear in `nums`.

Example 3:

Input: `nums = [9,6,4,2,3,5,7,0,1]`

Output: 8

Explanation: `n = 9` since there are 9 numbers, so all numbers are in the range `[0,9]`. 8 is the missing number in the range since it does not appear in `nums`.

Constraints:

`n == nums.length`

`1 <= n <= 104`

`0 <= nums[i] <= n`

All the numbers of `nums` are unique.

**The code solution is as follows:**

```
class Solution:
    def missingNumber(self, nums: List[int]) -> int:
        num_dict = {}
        for num in nums:
            if num not in num_dict:
                num_dict[num] = 1

        for num in range(len(nums)+1):
            if num not in num_dict:
                return num
```

*continued from previous page*

## Mini Python Challenge

Write a function to find the longest common prefix string amongst an array of strings.

If there is no common prefix, return an empty string "".

### Example 1:

Input: `strs = ["flower","flow","flight"]`

Output: `"fl"`

### Example 2:

Input: `strs = ["dog","racecar","car"]`

Output: `""`

**Explanation:** There is no common prefix among the input strings.

### Constraints:

- `1 <= strs.length <= 200`
- `0 <= strs[i].length <= 200`
- `strs[i]` consists of only lowercase English letters.

Look out for the answers in the next issue!