

Sixth IEEE International Conference for Women in Data Science



WOMEN IN DATA SCIENCE
RIYADH @ PSU

صَلِّتِي الْمَرْأَةَ فِي كُلِّ دِيَانَةٍ



**THE WOMEN IN DATA SCIENCE (WIDS)
INITIATIVE AIMS TO INSPIRE AND EDUCATE
DATA SCIENTISTS, REGARDLESS OF
GENDER, AND SUPPORT ARAB WOMEN IN
THE FIELD.**

March 14-15, 2023



**“WE’VE GONE FROM BEING A ONE-DAY TECHNICAL CONFERENCE TO A GLOBAL MOVEMENT OF WOMEN DEDICATED TO INSPIRING THE NEXT GENERATION OF DATA SCIENTISTS.”
JUDY LOGAN, AMBASSADOR WIDS
STANFORD UNIVERSITY.**



SIGNIFICANCE OF WIDS IN THE KINGDOM OF SAUDI ARABIA

“Women in Data Science” program from Stanford University, aims to foster interest and professional participation by women in not only data science, but also in engineering and computer science as a whole. The Women in Data Science event, held at Stanford University and at 150 locations worldwide, aims to inspire and educate data scientists and support women in the field.

Prince Sultan University (PSU) is a WiDS Ambassador for Stanford and by organizing an event in the Kingdom on the date that coincides with the Women in Data Science (WiDS) makes PSU a local WiDS representative and advocate for advancing women in the field.



OBJECTIVES OF WIDS

Present high profile international researchers and industry pioneers and female data scientists.

Promote higher representation of Women in Data Science.

Connect regional researchers and practitioners to pioneering global data science networks.

Demonstrates the Kingdom's direction to enhance academic research, which contributes to the national development in accordance with the kingdom's vision 2030.



The field of “Data Science for Social Good” is growing fast. Exciting opportunities provided by data science when applied to the fields of social innovation, philanthropy, international development and humanitarian aid - Dr. Tanzila Saba, WiDS Ambassador PSU





Take a look at the highlights video and press releases

<https://www.youtube.com/watch?v=aSzyQExN4Eg>

<https://www.youtube.com/watch?v=0ciH0cRvQ1w>

Saudi Press

<https://www.spa.gov.sa/viewfullstory.php?lang=ar&newsid=2341411#2341411>

ArabNews2022

<https://www.arabnews.com/node/2053121>

SAUDI PRESS AGENCY

JAZIRAH AL RIYADH ARAB NEW

Twitter



WIDS DATATHON

- **WiDS Datathon, organized by the WiDS Worldwide team, Harvard University IACS, and the WiDS Datathon Committee, is aligned to support UN Sustainable Development Goals (SDGs).**
- **PSU Women in Data Science(WiDS) Datathon is a collaboration with Stanford University.**
- **The WiDS Datathon aimed to encourage participants to hone their data science skills through analytical challenges focused on social impact, bringing people together across borders to work in teams.**

WiDS PSU 2022

- **WiDS PSU 2022 hosted a series of six workshops with nearly 200 attendees. The WiDS ambassadors (Prof. Tanzila Saba & Ms Fatima Khan) and mentors (Ms Erum Afzal & Dr. Rosana Gomes) introduced Kaggle and walked through the WiDS Datathon 2022 problem statement.**
- **The one exclusive session was hosted on exploratory data analysis and the other two sessions were for beginners on AI/ML introduction and Auto AI models.**



WIDS DATATHON

- WiDS Datathon at the Fifth International Conference for Women in Data Science (WiDS) at Prince Sultan University.
- The results are available on the Kaggle: [leaderboard](https://www.kaggle.com/c/widsdatathon2022/leaderboard)
<https://www.kaggle.com/c/widsdatathon2022/leaderboard>.
- Below are the results of PSU's participation in the competition:

TEAM 1 - 'AIDA' - First position-

1. LEADER - Dr. Tanzila Saba - tsaba@psu.edu.sa
2. Ms. Erum Afzal - erum.afzal@seecs.edu.pk
3. Dr. Souad Larabi - slarabi@psu.edu.sa
4. Ms. Safia Dawood - sdawood@psu.edu.sa

TEAM 2 - 'DATA SCIENCE CLUB-2' - Second position-

1. LEADER - Dr. Amerah Alghanim - aghanim@psu.edu.sa
2. Ms. Aisha Dawood - adawood@psu.edu.sa
3. Elham Al-Baroudi - eng.ebaroudi@gmail.com
4. Meer Husamuddin - meerhusamm@gmail.com

TEAM 3 - 'DATA SCIENCE CLUB-1' - Third Position

1. LEADER - Ms. Sumaira Asif - sasif@psu.edu.sa
2. Rida Khan - 218410171@psu.edu.sa
3. Muddassir Khalidi - muddassirnavazkhan@gmail.com
4. Rayyan Mohiuddin - rayyanmohiuddin@gmail.com

Winners are announced and acknowledged at Stanford University Worldwide WiDS and PSU WiDS

WiDS Datathon 2021 Impact			
Attendees	Participants	Winners	Winners
24000	4000	1700	85

Date	Title	Description	Presenter(s)
Wed, Nov 23	WIDS PSU 2022	Annual Conference of Women in Data Science (WiDS) at Prince Sultan University (PSU) featuring keynote speeches, workshops, and networking opportunities.	Dr. Souad Larabi
Thu, Nov 24	Workshop 1: Introduction to Data Science	Introduction to Data Science: A hands-on workshop for beginners.	Dr. Amerah Alghanim
Thu, Nov 24	Workshop 2: Data Analysis with Python	Data Analysis with Python: A hands-on workshop for intermediate users.	Dr. Amerah Alghanim
Thu, Nov 24	Workshop 3: Data Visualization with Tableau	Data Visualization with Tableau: A hands-on workshop for intermediate users.	Dr. Amerah Alghanim
Thu, Nov 24	Workshop 4: Data Mining with Weka	Data Mining with Weka: A hands-on workshop for intermediate users.	Dr. Amerah Alghanim
Thu, Nov 24	Workshop 5: Data Science with R	Data Science with R: A hands-on workshop for intermediate users.	Dr. Amerah Alghanim
Thu, Nov 24	Workshop 6: Data Science with Java	Data Science with Java: A hands-on workshop for intermediate users.	Dr. Amerah Alghanim
Thu, Nov 24	Workshop 7: Data Science with C++	Data Science with C++: A hands-on workshop for intermediate users.	Dr. Amerah Alghanim
Thu, Nov 24	Workshop 8: Data Science with JavaScript	Data Science with JavaScript: A hands-on workshop for intermediate users.	Dr. Amerah Alghanim
Thu, Nov 24	Workshop 9: Data Science with PHP	Data Science with PHP: A hands-on workshop for intermediate users.	Dr. Amerah Alghanim
Thu, Nov 24	Workshop 10: Data Science with Python (Advanced)	Data Science with Python (Advanced): A hands-on workshop for advanced users.	Dr. Amerah Alghanim
Thu, Nov 24	Workshop 11: Data Science with Python (Beginner)	Data Science with Python (Beginner): A hands-on workshop for beginners.	Dr. Amerah Alghanim
Thu, Nov 24	Workshop 12: Data Science with Python (Intermediate)	Data Science with Python (Intermediate): A hands-on workshop for intermediate users.	Dr. Amerah Alghanim
Thu, Nov 24	Workshop 13: Data Science with Python (Expert)	Data Science with Python (Expert): A hands-on workshop for expert users.	Dr. Amerah Alghanim



Energy Consumption by Sector

- Industry: 33%
- Transport: 21%
- Buildings: 36%
- Electricity & Heat: 10%

Building operation and maintenance is responsible for about 40% of greenhouse gas emissions and is projected to account for about 45% of primary energy consumption globally.

WIDS FOR HIGH SCHOOL

- WiDS Education Outreach strives to inspire secondary female school students to take relevant courses and consider future careers involving data science, Artificial Intelligence (AI), and other related areas.
- We particularly encourage younger women and girls to consider these STEM fields by showing examples of successful women in technology roles. In addition, we strive to impress all students that diversity and inclusion are extremely important.
- WiDS for high schools emphasizes the real-world applications, as well as the societal and environmental impact of data science.
- This initiative is aligned with Vision 2030 of KSA and WiDS Education at the University of Stanford, USA.

AIDA
Artificial Intelligence & data analysis Lab

جامعة الامير سلطان
PRINCE SULTAN UNIVERSITY

WIDS EDUCATION
MATH and Data Science for Schools

MATH DAY WORKSHOP: MIND MAZE
Tuesday 8-2-2022 12:00-1:00

TECH DAY WORKSHOP: FUN TECH
Wednesday 9-2-2022 12:00 - 1:00

SCHOOLS COMPETITION
Thursday 10-2-2022 10:00-1:00

For more details visit:
www.psu.edu.sa

مؤتمر المرأة في علم البيانات وورش عمل (الرياضيات وعلم البيانات)

1. أهداف المؤتمر: يهدف المؤتمر إلى تعزيز الوعي بأهمية علم البيانات في حياتنا اليومية، وتزويد الفتيات بفرصة التعرف على أحدث التقنيات في هذا المجال، وتشجيعهن على دراسة تخصصات علم البيانات في الجامعات.

2. أهداف الورش: يهدف الورش إلى تزويد الفتيات بمعرفة عملية حول أساسيات علم البيانات، وتطبيقها في مشاريع عملية، وذلك من خلال ورش عمل متخصصة في مجالات مختلفة.

3. أهداف مسابقة Mind Maze: تهدف المسابقة إلى اختبار مهارات الفتيات في حل الألغاز المنطقية، وتعزيز قدرتهن على التفكير التحليلي وحل المشكلات.

4. أهداف مسابقة Fun Tech: تهدف المسابقة إلى اختبار مهارات الفتيات في استخدام التكنولوجيا، وتطبيقها في مشاريع عملية، وذلك من خلال مسابقة تصميم تطبيقات.

5. أهداف مسابقة Schools Competition: تهدف المسابقة إلى اختبار مهارات الفتيات في حل الألغاز المنطقية، وتعزيز قدرتهن على التفكير التحليلي وحل المشكلات.

6. أهداف المؤتمر: يهدف المؤتمر إلى تعزيز الوعي بأهمية علم البيانات في حياتنا اليومية، وتزويد الفتيات بفرصة التعرف على أحدث التقنيات في هذا المجال، وتشجيعهن على دراسة تخصصات علم البيانات في الجامعات.

