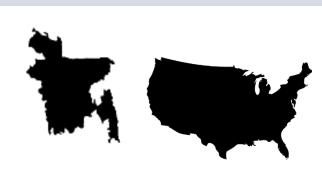
HerWILL DATATHON 2022



HerWILL is democratizing Data Science for the underrepresented global women by bridging the diversity gap in the industry and academia to build the Workforce of Future

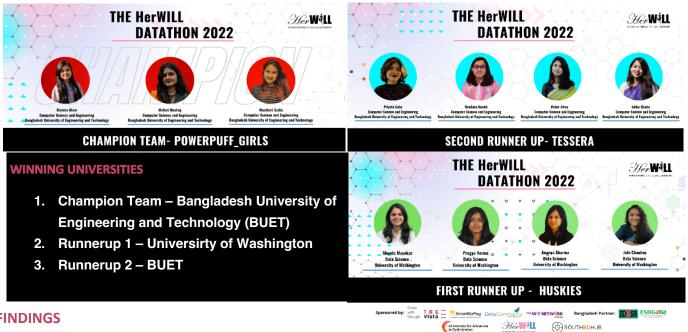
HerWILL - Women Inspired in Life and Leadership, In partnership with AI4OPT (AI Institute for Advances in Optimization), SBDH (South Big Data Hub) at Georgia Tech, and BdOSN (Bangladesh Open Source Network), has recently held a Datathon between tech women of color in the United States and tech women in Bangladesh, preceded by a series of workshops custom made to give an in-depth overview of Data Science and prepare the contenstents for the intense 48-hour competition.



| STORY IN NUMBERS | | | | | | | | |
|---------------------|-------------|---------------|--------|----------|-------------|-------|---------|--|
| 342 | 110 | 96 | 66 | 20 | 11 | 8 | 3 | |
| Program | Datathon | Participating | Cities | Worlwide | Winning | Final | Winning | |
| Participants | Contestents | Universities | | Mentors | Contestants | Teams | Teams | |

In this unique program, women from two different corners of the world teamed up, bonded and worked on a challenging dataset to solve a real world problem provided by the AI4OPT researchers. Around 20 top Data Scientists from six countries gathered to instruct, supervise, and mentor the students for the competition. The top three winning teams collectively received \$5300 in cash prizes and are now being matched with research and internship opportunities to fill the market demand for Data Scientists.

THE PROUD WINNING TEAMS



KEY FINDINGS

- ~50% reported average (3 on a 1-5 scale) technical skills in Data Science on pre-event **TOP PARTICIPATING UNIVERSITIES** survey; the ranking went up to 4 on post-event survey for the same group
- Participation from Bangladesh (60%) outweighed participations from the United **States (30%)**
 - Communication and program promotional pipelines could be improved in both countries, especially in the US (reach was made through the faculty)
 - Lower participation in the US directly correlate to the lower representation of women of color in tech in general, emphasizing the necessity of our program
- Participants are equally interested in learning about each other's cultures and way of TOP EIGHT FINALISTS CAME FROM life and work as the technical concepts
- In addition to the universal gender, racial, social, cultural injustices, women in Bangladesh face infrastructure and environmental issues such as electricity/wifi/computer malfunction, extensive heat/humidity/rain, and extraordinary traffic/commute issues that make things harder to succeed (personal essays)
- Teams participating for the second time reported having a deeper learning and a greater sense of belonging to a community of brilliant and ambitious women

- 1. BRAC University
- 2. University of Houston -Victoria
- 3. BUET
- **UNC Chapel Hill**
- **SUNY Old Westbury**
- Texas A&M

- **Texas A&M University**
- **University of Washington**
- 3. BUET
- 4. BRAC University
- 5. University of Dhaka
- 6. University of Houston
- 7. University of Chittagong
- 8. Arizona State University
- 9. Shahjalal University of
- 10. Science and Technology
- 11. Seattle University

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GLOBAL LEADERSHIP

HerWIll's Datathon 2022 is intentionally made dynamic to meet the evolving needs of our industry and academic partners. Our model includes nine 2-hour online workshops with live instuctors in group settings. Instructors are experts who provide real-life examples to bring content relevance and thus make Data Science less intimidating. 100% of the program was run virtually crossing geographic boundaries and time zone issues. Ten Data Scientists supervised the participants during the competitions from five different time zones.

HerWILL gathered global Data Science experts to educate, empower, and elevate a talented group of future Data Scientists



Custom-built project-based workshops were held to give an overview of Data Science. The courses went from basic to intermediate levels in depth subject areas to ensure success for all contestants.

WORKSHOPS LED BY THE HERWILL TEAM

- Motivation + Why | Tech Support & Setup
- Introduction into Data & Databases
- Design Thinking by Google
- Statistics/Descriptive Analysis(1)
- Statistics/Descriptive Analysis(2)
- Overview of Data Science Methods
- Machine Learning (1)
- Machine Learning (2)
- Evaluation & Validation

DATATHON DATASET CAME FROM AI4OPT TO:

- Predict hourly taxi trip requests by location to identify request patterns
- Build a prediction model to anticipate trip request surges and plan for better taxi deployment strategies

HERWILL WORKFORCE DEVELOPMENT OVERVIEW

HerWILL has developed a program that brings together project based hands-on exercises delivered by experts in various fields of Data Science, industry leaders, and academic researchers to launch and grow careers in Data Science and Al. The multi-year, multi-faceted program built a community of Data enthusiasts that will be groomed to be future leaders and matched with hard-to-reach opportunities.

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PARTNERSHIP

HerWILL and AI4OPT have entered a five-year visionary partnership to bring higher paying career and entrepreneurial opportunities for historically underrepresented communities, including the underserved global women, youth, and other diverse underemployed individuals. HerWILL's Bangladesh partner BdOSN has played a huge role in engaging the students in this successufl competion.

WHAT THE WINNING TEAMS HAD TO SAY



WHY DATA SCIENCE

Women represent only 10% of the tech workforce. On the flip side, Data Science jobs are in the top five highest paying opportunities with the greatest demands for talents. Our goal is to bridge this gap in high demand and low supply of skilled talents through Data Science education, benefiting women with better economic opportunities and organizations with better talents. HerWILL's program will help talented women get recognized, trained, and certified to play a bigger role in the global tech future.

HerWILL Datathon 2022 - THE PILOT

This was a Pilot program run in the United States. HerWILL wanted to see how the disadvantaged women of color in the United States can engage in learning Data Science and participate in a competition to solve real-world problem. When placed with tech women in Bangladesh, the outcome was extraordinary that paved the path for building the Future of Work of diversity, equity, and inclusion at an international level.

ABOUT HerWILL

HerWILL, a 501(c)3 non-profit based in Atlanta, Georgia, USA, sponsors activities and coordinates community efforts in any portion of the globe to increase STEM-career opportunities for populations disadvantaged by structural gender or racial injustices, therefore contribute in achieving UN SDG5 (Gender Equality) by 2030.

With Gratitude to:

















