

HerWILL Data Community Newsletter

MARCH 2023

HerWILL Data Science and AI Workforce Development Newsletter



Message from
Farhana Hasan
Founder and CEO

Hello All,

To address the longstanding gender and racial disparities in the field of Data Science and AI, it is crucial to foster cross-cultural knowledge-sharing and networking opportunities. Historically, women and women of color have faced challenges breaking into these fields due to the lack of visible role models. HerWILL is committed to changing this reality by providing mentorship opportunities that help underrepresented young men and women envision themselves in these fields, connect with role models and peers, and achieve their full potential. Our mission is to create a more inclusive and diverse field that reflects our world.

In January 2021, we started building a global community of Data Science/AI experts. And from October 2022, we started hosting bi-monthly virtual meetups where these experts, rising talents, and data enthusiasts come together and engage in conversations that would aid in the career journey of future data scientists. Our approach has been mentor-driven, and we have invited professors, industry leaders, and high-potential students to share their journeys and remarkable work experiences. Networking with bright minds from the US and Europe creates an enlightening experience for young people from different corners of Bangladesh.

In the bi-monthly events so far, Dr. Bistra Dilkina from the University of Southern California, Dr. Kevin Dalmeijer from Georgia Institute of Technology, and Dr. Alper Atamturk from UC Berkely were featured to impart valuable insight to talk about their individual journeys, research work, and future opportunities in their respective institutions. HerWILL community will be prioritized at each of these institutions for merit-based admission and research assistantships and scholarships in some deserving cases.

Our recent engagements with SAP, Dell Technologies, Rutgers University, Houston Tillerson, and St. Louis University pave the way for a bigger and better collaboration consortium that will help us build a faster global mentorship model. We are thrilled to have such esteemed partners who share our vision for a more diverse and inclusive field of Data Science and AI.

We invite you to join us and become a part of our community. Our next meetup is on March 8th, 2023, International Women's Day, and we would love to see you there. Let's come together to build a better future for the underrepresented youth in Data Science and AI.

Sincerely,

Farhana Hasan
Founder and CEO
HerWILL

What's all the Hype about ChatGPT and What is it Primarily Used for?

If you have yet to hear about ChatGPT, you're missing out on one of the most exciting developments in natural language processing. ChatGPT is a state-of-the-art language model developed by OpenAI that has taken the world by storm. But what is all the hype about, and what can it be used for? Let's take a closer look.

ChatGPT is a language model trained on massive data to generate contextually relevant and fluent responses to text-based prompts. What sets ChatGPT apart from other models is its ability to generate human-like responses that are incredibly accurate and relevant to the topic at hand. This makes it incredibly useful for a wide range of applications.

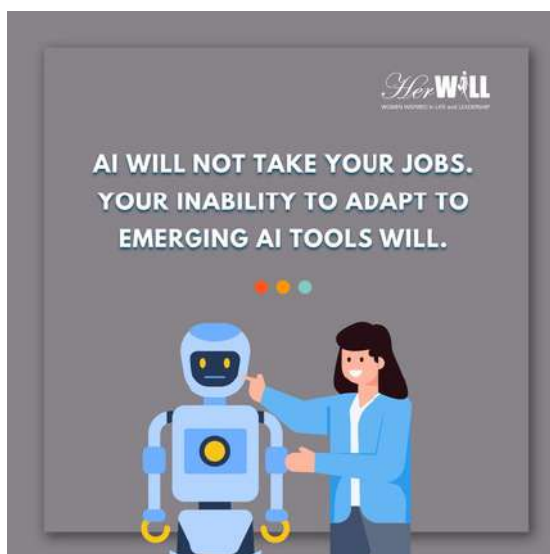
One of the most common uses for ChatGPT is as a chatbot or personal assistant. With ChatGPT, you can create a chatbot that can interact with your customers, answer their questions, and even provide recommendations. This can help you provide better customer service and streamline your operations.

But ChatGPT can also be used for more creative applications. For example, you can use ChatGPT to generate content for your website, blog, or social media channels. With ChatGPT, you can create high-quality content tailored to your audience and optimized for search engines.

Another exciting use for ChatGPT is in the field of education. ChatGPT can be used to create interactive tutorials and learning materials personalized to each student's needs. This can help students learn more effectively and improve their retention of information. And these are just a few examples of what ChatGPT can be used for. With its advanced natural language processing capabilities, the possibilities are truly endless.

So if you want to take your business or creative endeavors to the next level, check out ChatGPT. It's an incredibly powerful tool that has the potential to transform the way we interact with machines and each other.

Written by ChatGPT (Prompt - write an engaging newsletter post about "what's all the hype about chatGPT and what it can be used for?") 😊



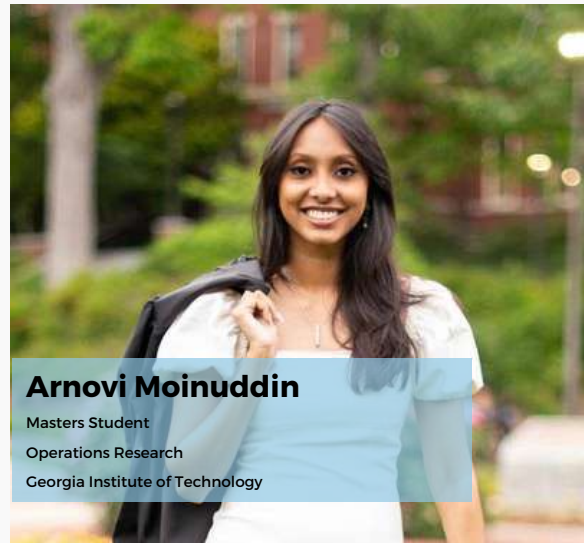
ChatGPT		
Examples	Capabilities	Limitations
"Explain quantum computing in simple terms"	Remembers what user said earlier in the conversation	May occasionally generate incorrect information
"Got any creative ideas for a 10 year old's birthday?"	Allows user to provide follow-up corrections	May occasionally produce harmful instructions or biased content
"How do I make an HTTP request in Javascript?"	Trained to decline inappropriate requests	Limited knowledge of world and events after 2021

Data Champions Committed to Diversity

Alper Atamturk is the Earl J. Isaac Chair in the Science and Analysis of Decision Making at the University of California, Berkeley. Dr. Atamturk also serves as Department Chair and Professor for the Department of Industrial Engineering and Operations Research (IEOR) at UC Berkeley. He received his Ph.D. from the Georgia Institute of Technology in 1998. His research spans optimization theory and methodologies broadly, including integer programming, sparse learning, network design, and optimization under uncertainty. Atamturk's research contributions in the area of integer optimization have found applications in many industries, from finance to defense, to health care. He is a Vannevar Bush Fellow of the US Department of Defense and a Fellow of INFORMS.



Atamturk also serves as chair of the INFORMS Optimization Society and co-editor for Mathematical Programming, area editor for Mathematical Programming Computation, and associate editor for Discrete Optimization and Journal of Risk; he served on the editorial boards of Networks, Operations Research, and Management Science. He is the director of the UC Berkeley Computational Optimization Lab and UC Berkeley's Site Director for the AI Institute for Advances in Optimization. Learn more about Alper Atamturk's work: <https://atamturk.ieor.berkeley.edu/> Berkeley Computational Optimization Lab: <https://ieor.berkeley.edu/people/alper-atamturk/>.



Arnovi Moinuddin is a Masters student at Georgia Institute of Technology studying Operations Research. She is passionate about efficiency, innovation, and expanding opportunities to highly capable individuals. Alongside her coursework, she's a Teaching Assistant for Constraint Programming, a course focused on scheduling, routing and resource allocation.

During her undergraduate career in Industrial Engineering, she was involved in research related to expanding mobility and transportation in the city of Atlanta, working in Dr. Van Hentenryck's Socially Aware Mobility (SAM) Lab. She spent the last year as a Data Analyst at Capital One in Anti-Money Laundering and will now be taking the next two semesters off to intern at Apple before returning to finish up her Masters.

Arnovi seeks challenges in her work, thrives in collaborative environments, and likes to question her surroundings to constantly find improvements.

You can learn more about her by visiting her LinkedIn profile at <https://www.linkedin.com/in/arnovi-moinuddin/>. Her professional background and accomplishments are highlighted on her profile, and we believe you will find it informative and insightful.

DataTrek - A Roadmap to Data Science

Basic	<p>10 Free Data Science Online Courses for Beginners</p> <p>https://medium.com/javarevisited/10-free-data-science-online-courses-for-beginners-a5fe78c2cb7b</p>
Intermediate	<ul style="list-style-type: none"> • Become a Data Scientist- Udacity • Data Science: Foundations using R Specialization- Coursera • Python for Data Science and Machine Learning Bootcamp- Udemy • Data Engineering, Big Data, and Machine Learning on GCP specialization- Coursera
Advanced	<p>Deep Learning Specialization: https://www.coursera.org/specializations/deep-learning</p> <p>This course is divided into a few subsections. If one is a complete beginner, he/she can easily get the basic intuition of machine learning algorithms and eventually go to more advanced topics like convolutional neural network, recurrent neural network</p>

Opportunities:



Diversity Cyber Council

(www.diversitycybercouncil.com), an Atlanta-based 501c3 Non-Profit whose mission is to train, educate, and support the employment of under-represented professionals in tech. They recently partnered with Grow with Google to offer scholarships to Google's Tech Programs. If anyone is interested please send an email to support@diversitycybercouncil.com with your first and last name to be issued a scholarship, this is a free opportunity with lots of benefits so hoping all in need will reach out. They are also working on an MVP of their product Spotlight (www.spotlightapp.org) if there are any UI/UX and/or developers out there that may be interested in the project please connect with him via DM or send an email to odie.gray@diversitycybercouncil.com




The 11-month in-person Master of Analytics program trains students in data-driven analytical methods and tools for optimization, statistics, simulation, and risk management with relevant industry context so that the graduates are not only highly skilled in the latest tools and fluent in working with large data sets, but also are able to raise the right questions to develop innovative models and find creative solutions to rapidly changing business and industry challenges, and communicate and implement their solutions. <https://analytics.berkeley.edu/>





The LeadersUp program partnered with Google to provide Google Certificates, FREE coaching, peer support, and connection to companies offering high-paying careers. Certs you could receive: Data Analyst, UX Designer, Project Manager, IT Support Specialist <https://lnkd.in/gBq4WZw6>


Upcoming Event: March 8, 2023



Data Community Virtual Meetup March 2023: IWD Special

**Tahsina Farah Sanam, Ph.D.**
Assistant Professor
Institute of Appropriate Technology
Bangladesh University of Engineering and Technology

**Hanya Elhashemy**
Master's Student of Computer Science
Technische Universität München(TUM)
Master's Thesis at TUM and MIT

**Tanzeem Haque**
HerWILL Lead for STEM Outreach
Data Engineer, DWH & BI Expert

Wednesday, March 8, 2023
11 AM EST | 17:00 hrs CET | 10 PM BST

Registration open:

<https://forms.gle/o8CZHykdCiu4ndr6>