Company: IBM Manufacturing Solutions Pte Ltd, Singapore
Company Description: International Business Machines Corporation (IBM) is an American multinational technology company headquartered in Armonk, New York, with operations in over 170 countries.
Nomination Category: Individual Awards Categories
Nomination Sub Category: Female Employee of the Year - Business
Nomination Title: Liu Lu, Senior Data Scientist

1. Which will you submit for your nomination in this category, a video of up to five (5) minutes, explaining the achievements since July 1, 2023 of the nominated woman, OR written answers to the questions? (Choose one):

   Written answers to the questions

2. If you are submitting a video of up to five (5) minutes in length, provide the URL of the video here, OR attach it to your entry via the "Add Attachments, Videos, or Links to This Entry" link above, through which you may also upload a copy of your video. If you are submitting written answers to the questions for this category, provide them in the spaces below:

3. Briefly describe the nominated individual: history and past performance (up to 200 words):

   Total 200 words used.

   Liu Lu is a Senior Data Scientist at IBM, driving AI-powered innovation and digital transformation throughout IBM's global supply chain. Named one of Singapore 100 Women in Tech in 2025, she holds IBM's prestigious Data Science Expert certification and brings deep expertise in operations research, machine learning, and generative AI to solve complex industrial challenges and deliver significant business value.

   As a trailblazer in utilizing generative AI to supply chain strategies, she spearheaded transformative projects that optimized sourcing, enhanced quality, and strengthened risk mitigation. Her implementation of AI-driven supplier risk assessment and cost optimization models generated over USD $35 million in savings for IBM Infrastructure's global operations. Her quality analytics work has also reduced 80% defects over five years and saved approximately USD $400,000 annually in warranty costs.

   Liu Lu leads her global team into the next frontier of agentic AI, using intelligent agents to revolutionize supply chain decision-making, democratize AI– projected to save 15,000 hours across IBM Infrastructure. She holds multiple patents, received IBM Defensive Publication Award, and has published research in leading journals such as IEEE.

   She is also a passionate mentor, leading Data Science Chapter of IBM's 72 Citizens and has mentored many aspiring professionals.

4. Outline the nominee's achievements since July 1 2023 that you wish to bring to the judges' attention (up to 250 words):

   Total 248 words used.

   Liu Lu has demonstrated exceptional achievements in innovation, leadership, and industry impact.

   Industry Recognition & Awards

   2025

   - Singapore 100 Women in Tech
     Named one of Singapore 100 Women in Tech, honoring outstanding women shaping the future of technology.
   - IBM Equity Award

   Awarded to high-impact future leaders

   - IBM Excellence Award
     Awarded for outstanding resourcefulness in solving complex challenges with GenAI.
   - IBM Defensive Publication Award
     Honored for her invention on rebate strategy.
   - IBM Entrepreneur Award
     Recognized for her groundbreaking work in GenAI.

   2024

   - IBM File Award

     Recognized for multi-country patent filing.

   2023

   - National Manufacturing Association's Manufacturing Leadership Award (Digital Supply Chains)

     Awarded for leading an AI-driven sourcing solution.
   - IBM Growth Award
     Nominated by executive leadership for leading AI implementations delivering over USD $35M in cost savings.
   - Recognition from Managers and Peers

   Innovation & Intellectual Property

   - 2 patents (file award and high-value patent).

   - 4 papers published in top journals.

   Thought Leadership & Public Speaking

   - Speaker at industry conferences like AGMA Conference, Asia Digital Supply Chain Summit etc.

   - Invited attendee at ICLR and Supply Chain Leadership Summit.

   - Presented project to Singapore Minister at IBM Think Event.

   - Engaged at SMU Industry Day to showcase IBM-SMU collaboration.

   Mentorship & Talent Development

   - Leads IBM's Citizen Data Science Chapter, mentored 72 professionals.

   - Mentor at SMU Hackathons and advises on NUS-ISS curriculum.

   - Provides AI training to clients.

   Certifications & Credentials

   - Earned IBM's elite Data Science Expert Level certification.

   - Holds 27 IBM badges and 2 certifications from Singapore Polytechnic.

   - Recognized as IBM Intellectual Property Creator, Teacher & Mentor.

5. Reference any attachments of supporting materials throughout this nomination and how they provide evidence of the claims you have made in this nomination (up to 250 words):

   Total 243 words used.

   To support this nomination, Liu Lu has attached a comprehensive PDF titled "Stevie Awards Women in Business 2025_Liu Lu.pdf", which consolidates evidence across all achievements highlighted in this application. The file includes the following sections:

   1. **Industry Recognition & Awards**
      Visuals and documentation of key honors, including Singapore 100 Women in Tech 2025, IBM Equity Award, IBM Entrepreneur Award, and the National Manufacturing Leadership Awards etc. These confirm both external and internal validation of Liu Lu's leadership and impact.

   2. **Innovation & Intellectual Property**
      This section combines her intellectual property and academic contributions:

      - Patents: Includes publication links and IBM internal awards for filed and published patents, such as "Prediction Model Enhancement" (WO2020075019) and "Automated Trend Detection Through Image Recognition"(US20200311900), showcasing AI innovation in risk and quality.

      - Published Research: Features her peer-reviewed papers in top-tier journals such as Transportation Research Part E, International Journal of Mechanical, and IEEE. Links are provided to demonstrate scholarly impact and technical depth.

   3. **Thought Leadership & Public Speaking**
      Documentation of speaking invitations, photos, and agendas from key events such as the Asia Digital Supply Chain Innovation Summit, Supply Chain Management for Semiconductor Industry Conference, IBM Think Event, and SMU Industry Day.

   4. **Mentorship & Talent Development**
      Highlights testimonials and outcomes from IBM's Citizens Program and her corporate and university mentorship activities.

   5. **Certifications & Credentials**
      Includes 27 IBM badges, the prestigious Data Science Expert certification, and two Singapore Polytechnic credentials.

   This presentation provides robust, multi-dimensional proof of Liu Lu's impact and leadership.

6. Explain why the achievements you have highlighted are unique or significant. If possible compare the achievements to the performance of other players in your industry and/or to the nominee's past performance (up to 250 words):

   Total 243 words used.

   Liu Lu's achievements are truly inspiring—not just because of the capaciousness of her impact, but because of how she integrates deep technical expertise with a strategic vision for solving real-world problems. Her application of generative AI to global supply chain challenges has delivered measurable outcomes—like saving IBM over USD $35 million and reducing defective parts by 80%, setting a new benchmark for enterprise-scale AI deployment compared to industry peers.

   What sets her apart is not just what she builds, but how she leads. Unlike many in similar roles who focus on model development, she has driven end-to-end transformation—from concept to deployment, adoption, and business value. Her work outpaces standard analytics implementations and positions her as a change agent in a space typically led by executives.

   Equally remarkable is her dedication to empowering others. She leads IBM's Citizens Data Science Chapter, mentoring over 70 professionals and playing a key role in the award-winning Citizen Data Scientist: Next Gen Drivers of Transformationprogram. She also provides curriculum feedback to universities and trains enterprise clients such as Smart Modular Technologies.

   Beyond that, Liu Lu regularly shares her insights as a global speaker—at the Asia Digital Supply Chain Innovation Summit, Semiconductor Supply Chain Industry event, and more—expanding her impact across industries.

   Her journey from innovator, to mentor, to industry thought leader, exemplifies the future of inclusive, high-impact tech leadership. Liu Lu stands out not just for what she achieves, but for how she brings others along with her.

Attachments/Videos/Links:

[Liu Lu, Senior Data Scientist](#)