



## **Generative AI: From Concept to Deployment**

**Mrinal Karvir, Intel Corporation**

**\*\*\*\*\* Event is dedicated for Celebrating the IEEE Day 2024 \*\*\*\*\***

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**October 1, Tuesday, 6~ 8:00 PM**

**Virtual Seminar through IEEE WebEx hosting**

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**- Event Agenda -**

***Event Agenda: 6:00 PM***

**Opening Remark – IEEE NY Section Chair, Chamara Johnson**

**Welcome - Introduction - (Prof. Ping-Tsai Chung, IEEE New York Section, Vice Chair of Section Activities & Prof. Xin-Zhou Wei, IEEE New York Section, Chair of Student Activities)**

**6:10 ~7:10 PM (Presentation- Mrinal Karvir, Manager, Intel - Generative AI)**

**7:10 PM Q/A**

**Abstract:** As generative AI (GenAI) technologies advance, their impact on industries from healthcare to entertainment is undeniable, with a projected market value exceeding \$110 billion by 2030. Gaining an understanding of GenAI solutions is crucial, not just for tech professionals but for anyone looking to stay relevant in an increasingly AI-driven world. We will walk through the core aspects of building GenAI solutions, covering foundational AI models, the art of prompt engineering, and the technical considerations for selecting Large Language Models (LLMs). Engaging in hands-on demonstrations will bring the technology to life. We will address significant challenges and risks, showcasing the dual-edged nature of these technologies. Ethical considerations will be at the forefront, emphasizing the necessity of responsible innovation. Through real-world examples, attendees will gain a clear understanding of GenAI's potential and pitfalls, equipped to navigate and contribute responsibly to this rapidly evolving field.



**Mrinal Karvir, A senior AI Software Engineering Manager at Intel Corporation,**

Mrinal leads engineering for Intel Developer Cloud for the Edge, which provides instant remote access to deploy AI applications on the latest Intel hardware and software platforms. The Edge AI and Vision Alliance named the DevCloud a 2020 Vision Product of the Year. She has managed teams that developed innovative solutions in AI and led the development of the world's first presence-aware PC experience with Intel Context Sensing Technology which won an innovation award at CES 2019. She is a passionate Ethical AI Champion and provides

leadership and clarity on responsible AI practices. She strives to create awareness and champions the cause through talks, panel discussions, and courses at forums such as SWE's Advance Learning Center, Embedded Vision Summit, IEEE Conference on Artificial Intelligence, Silicon Valley Women in Engineering, and more. She has also helped shape the IEEE AIS Ethics Standards as an expert reviewer. She is an IEEE Senior Member and serves as the Secretary and Board of Governor for the IEEE Computer Society and as Vice Chair for the IEEE Santa Clara Valley Women in Engineering chapter to build a strong community of technical women. She volunteers as an ABET (Accreditation Board for Engineering and Technology) Program Evaluator for Computer Science, Software Engineering, and Data Science programs to improve the quality of education. She often serves on judging panels and reviews content for AI Conferences. She volunteers as a mentor with the Society of Women Engineers and as a reviewer for the SWE scholarship and NCWIT (National Center for Women & Information Technology) Computing Awards.