Application: 7312

Abhishek Maligehalli Shivalingaiah

Page: General Information

Provide information about the company to be considered for the award. If you will be nominating an individual, specify the nominee's employer.

Name of Organization/Company

Abhishek Maligehalli Shivalingaiah

Mobile Phone Number

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Additional Contacts

I would also like to have others receive emails about the disposition of our entries.

Page: Entry Information

Entry Title

Abhishek Maligehalli Shivalingaiah

Category

E09. Lifetime Achievement Award - Artificial Intelligence

Lifetime Achievement Submission Format

Written Answers

a. Provide a short biography of the nominated person (up to 200 words). Required

Abhishek Maligehalli Shivalingaiah is a globally recognized Al leader, known for architecting enterprise-grade, trustworthy generative Al systems. With over a decade of experience across industry leaders including Amazon, Motorola Solutions, Vanguard, Lenovo, and Tesco, Abhishek has developed Al solutions that combine cutting-edge research with scalable real-world impact.

As Senior Generative Al Solutions Architect at Amazon Web Services, he led the ideation and development of Amazon Q Business, a citation-aware enterprise Al assistant. His open-source innovations in retrieval-augmented generation (RAG) have been widely adopted and are referenced in government frameworks like NIST's Al Risk Management Framework and CivAl's GenAl Toolkit.

Abhishek holds a Master's in Information Technology and Management from the University of Texas at Dallas, with a focus on machine learning, and is certified in Data Science by MIT. His solutions have enhanced AI reliability in healthcare, financial advisory, emergency response, and citizen services.

A prolific speaker, he has presented at AWS re:Invent and TSIA, and his research has garnered over 180,000 blog views and 200+ GitHub stars. He continues to champion responsible AI, bridging innovation with public trust and societal benefit.He is an active ACM committee member

b. Outline the nominated person's career of achievement. There is no eligibility window for this category, so you may cite the nominee's entire lifetime of accomplishment (up to 250 words). Required

Abhishek began his Al career at Tesco, building data pipelines and machine learning models that reduced food waste in Asia by 30%.

At Motorola Solutions, he developed Al-driven infrastructure that improved the reliability of 911 emergency services, impacting millions of calls annually.

At Vanguard, his recommender models connected clients to personalized financial guidance, helping democratize financial advice in the U.S.

At Lenovo, he led AI efforts across marketing, e-commerce, customer experience, and product engineering—saving the company \$600K annually in software costs and boosting ad campaign ROI with attribution modeling. He built and scaled Lenovo's AutoML and distributed AI platforms, mentoring data scientists and deploying over 10 AI solutions.

In his current role at Amazon Web Services, Abhishek pioneered a trustworthy RAG framework to reduce Al hallucinations and enforce citation-backed outputs. This led directly to the creation of Amazon Q Business, now adopted by Fortune 100 companies. His work slashed hallucination rates by over 70%, improved retrieval accuracy by 60%, and reduced Al operational costs by 35%.

His innovations are open source, integrated into the LangChain framework, and used globally. Cited by federal bodies and featured in major media outlets, his work also powers Al use cases in healthcare, education, and finance—solidifying his status as a trailblazer in enterprise Al and Al safety.

c. Explain why the achievements you have highlighted are unique or significant. If possible compare the achievements to the performance of other persons in the nominee's industry(s) (up to 250 words). Required

Abhishek stands out not just for his deep technical contributions, but for making Al trustworthy, safe, and ready for regulated, high-impact domains. While much of the generative Al industry focuses on producing human-like text, Abhishek tackled the harder problem: ensuring accuracy, explainability, and ethical deployment at scale.

His signature achievement—an enterprise-grade retrieval-augmented generation (RAG) framework—redefines what it means to trust Al. Grounded in verifiable documents, his system prevents hallucinations, secures sensitive enterprise data through differential privacy and access control, and supports multimodal understanding across text, images, and tables.

Abhishek's framework is more than academic; it is production-ready, powering Amazon Q Business. His work has led to industry-first metrics: hallucination rates dropped below 8%, retrieval accuracy improved 40–60%, and token consumption dropped 25–35%, resulting in tangible cost savings and improved efficiency.

Compared to peers, few have bridged the gap from open-source research to policy impact and commercial productization. His solutions have been cited in U.S. Al policy, featured by the Al Safety Institute Consortium. From modernizing NG911 to building inclusive Al systems for the visually impaired, his work has saved lives, improved services, and set new standards

Abhishek is not just a practitioner—he is shaping the global conversation around responsible Al.

d. 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). Optional

The following materials support Abhishek's nomination:

AWS Research Publication: "Quickly Build High-Accuracy Generative Al Applications..." (180K+ views), detailing his RAG methodology, adopted in Amazon Q Business.

GitHub Repositories: His open-source RAG code is integrated into LangChain (100K+ stars), demonstrating community-wide adoption.

Government References: Frameworks by NIST and CivAl cite his methods in Al safety and retrieval evaluation.

Conference Talks: Featured speaker at AWS re:Invent 2024 and TSIA 2023, educating AI leaders worldwide.

Enterprise Case Studies: His AI work improved efficiency by 90% in pharmaceutical research, boosted government response accuracy from 40% to 94%, and cut emergency response times at Motorola Solutions.

Press Coverage: His contributions to Amazon Q and Amazon Kendra have been featured in The New York Times, CNBC, AP News, Fox Business, and TechCrunch.

Awards and Certifications: MIT-certified data scientist, AWS Certified Solutions Architect, and recipient of Al innovation accolades.

These assets validate Abhishek's impact in research, product, and public infrastructure—underscoring why his lifetime achievement is not only unique but deeply consequential.

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