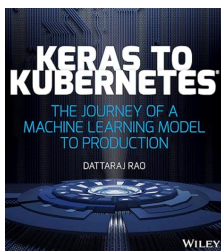# DATTARAJ JAGDISH RAO

About Me

I am the **Chief Data Scientist** at **Persistent** for last 4+ years, driving overall **Artificial Intelligence** & **Generative AI** strategy, mentoring a 150+ **data science** organisation. Previously, I worked for 20 years at **General Electric (GE)** in Bangalore and Virginia, driving **innovation** and **advanced technology** initiatives. I currently work out of my hometown in Goa and am looking for a challenging **global leadership** role where I can apply technology innovation to real business problems. I am a **thought leader**, keynote **speaker**, published **author** and have **11 patents** in **AI**.

Public Profile: https://www.linkedin.com/in/dattarajrao/

Contact: dattarajrao@yahoo.com

Experience

Chief Data Scientist - Persistent Systems - 2019-Present
Head of the Generative AI Center of Excellence (CoE) building innovative solutions powered by large language models (LLM) and multi-modal models for banking, financial services & insurance (BFSI), Healthcare and Pharmaceutical customers. Developed technology vision for an "Enterprise OS" to streamline LLM application development, evaluation and deployment, while incorporating patterns in observability, MLOps and driven by principles of Responsible AI. Incubated business model innovation to achieve a $20MM revenue target for Generative AI driven new services growth via Sure Start and Innovation pod models. Developing accelerators that are helping improve developer productivity (30%), lower contact centre query resolution times (40%) and enhance the quality of medical diagnosis of cancer via digital pathology. Created a research playground for testing and evaluating latest LLMs from players like OpenAI, Azure, Amazon, Google, Anthropic and comparing with open models from HuggingFace like Mistral, Lllama2 and more. Mentoring a 150+ data science organisation and incubated the data science career path inside the company.

Principal Architect - GE Transportation/Wabtec - 2014-2019
Innovation leader for a 400+ strong engineering team managing ideation and conversion of ideas into products. Successfully translated the video-based track inspection solution into a $200MM product line called LocoVISION analytics. Incubated the idea and sold to major railway Customer via persistent demonstrations, meetings and presentations at rail conferences. Architected a Kubernetes based cloud platform to deliver a standardized path-to-production and DevOps for Machine Learning (ML) algorithms. Empowered Data Scientists with cutting-edge tools like AI workbenches (H2O.ai, Jupyter), ML workflow pipelines (Kubeflow), Model Deployment (TensorFlow-Serving) and distributed runtimes with BigData and GPU clusters.

Principal Software Architect - GE Power - 2004-2014
Developed technology roadmap for GE Power's Remote Monitoring & Diagnostics (RM&D) centre at Atlanta that monitors more than 2000 gas turbines across the world. Championed the simplification of overall system

architecture from edge to back-office, leveraging smart data transfers, scalable analytics and business intelligence. Incubated initiatives like common rules engine, asset management ontology and standard common user interface.

Research Engineer - GE Global Research - 2000-2004
Developed a knowledge based engineering (KBE) solution for CAD systems. Leveraged System-level thinking to co-relate high level requirements and flow them down to individual component geometry changes. Developed solutions using Unigraphics and Knowledge Fusion to capture design knowledge into the system, via multiple interviews with machine designers understanding their thought process. Achieved 20% reduction in model building time and improved overall design quality by almost 30%.

Education
BE - Mechanical Engineering - Goa University - 1996-2000

Skills
Generative AI, Large Language Models, Knowledge Graphs, Federated Learning, MLOps patterns, Next-best Action, Recommender Systems, Natural Language Understanding, Computer Vision, Video Analytics.

Awards and Recognition
Author of the book "Keras to Kubernetes - journey of a Machine Learning model to Production" - published by Wiley.

Top talent and Technology partner of the year award for 4 year in a row and running.

LinkedIn influencer with 10k followers, regularly featured in VentureBeat, Unite.ai, Times Of India, etc. Speaker at top conferences like WSDM, NVIDIA GTC and CODS COMAD.