Wrote a presentation on Advancing LLM Efficiency

Got certification on Generative AI and LLMs: Architecture and Data

Preparation from coursera

Worked on VED (Vehicle Energy Dissipation) POC ( used transformers lstm and other techniques for comparision which gave the better results)

Worked on luminescence analysis in night scenes a poc for Toyota ( used algorithms like Weak Point Estimation with Min-Max, Weak Point Estimation with Multiple Bins, Sliding Window Analysis, Chi-Square Test, Histogram Analysis, K-Means, Gaussian Mixture, BIRCH, Affinity Propagation, Agglomerative Clustering and Mean Shift)

then worked on agentic approach of automating the test cases generation for .go files

below Is the workflow of the same

A diagram of a software development

AI-generated content may be incorrect.

Then worked on stable diffusion for creating synthetic pictorial dataset

Then worked on Nvidia omniverse for connecting with ROS2 bridge

Helped in improving the RAG system where it can fetch and infer the answers based on the dataset along with taking leverage of the llm.

Worked on Vision rag system where it can save the pdf provided to it and when user asks for query it can give the specific images relevant from the pdf as output result along with the proper relevant text   
  
worked on developing an agentic system for code generation from user stories and specific requirements

test case scenario generation, test case generation and report generation all on agentic model itself.

Working on replicating the deep research function of cgat gpt , claude and gemini from scratch using local LLM.

Got GEM award recognizing the work that I did in the GenAI department   
(Proud to recognize our brilliant engineer for his outstanding contributions to advancing Generative AI and Agentic AI. Your innovation, dedication, and technical expertise have pushed the boundaries of what’s possible, shaping the future of AI driven automation and creativity)

Presented the video review of the research paper titled “Generative Artificial Intelligence A systematic Review and Applications”