Podcast with Adi

- What are the biggest challenges organizations face when trying to adopt AI?
    - Data quality and availability issues, unfair advantage/ownership of data
    - Lack of AI skills and expertise, Prompt Engineer is not data scientist, LLMs need NLP
    - Cultural resistance and expectations management, is it MAGIC?
    - Unclear AI strategy and use cases, just for PR or real problem solving
    - Integration complexities with existing systems, or just a Chatbot on the sides??
    - Ethical and regulatory concerns

- What are the key building blocks for a successful AI implementation?
    - Strong data foundation and governance, sources, cleaning, transformations, etc
    - Clearly defined business objectives and use cases
    - Adequate AI skills and talent pipeline
    - Robust IT infrastructure and computing power
    - Iterative and agile development approach
- How can organizations assess their AI readiness and identify the best opportunities for AI integration?
    - Conduct a thorough data audit
    - Assess current technical capabilities, BUILD or Buy, Hire or COntract, use ready APIs
    - Identify high-impact use cases aligned with business goals, don't leave your Domain, leverage the expertise
    - Benchmark against industry peers and leaders
    - Start with low-hanging, high-ROI use cases
- What are the essential skills and expertise needed within an organization to leverage AI effectively?
    - Data science and machine learning expertise, NLP, traditional software engineering is not going away
    - Domain knowledge, a must, that's the differentiator finally
    - Strong communication and collaboration skills, with internal and external folks
- How can organizations foster a data-driven culture that supports AI adoption?
    - Leadership buy-in and support, AI awareness is minimal and is a must, wild expectations
    - Continuous education and training, new models each day, while looking at your domain, upgrade folks without fear of them leaving
    - Reward systems for data-driven decision-making, it's not hype, for LARGE data, AI is a must
- How can organizations measure the success of their AI initiatives?
    - Key performance indicators (KPIs) aligned with business objectives, no Change, same metrics for AI ML
    - Monitoring accuracy, efficiency, and ROI and cost, like any other system

    - Feedback loops for continuous improvement
    - A/B testing and controlled experiments
    - Benchmarking against industry standards and best practices
- What are some common pitfalls organizations should avoid when implementing AI?
    - Neglecting data quality and governance, DATA is King
    - Treating AI as a silver bullet solution
    - Siloed and fragmented AI efforts
    - Overlooking ethical considerations, being too much will make you plain WRONG, we saw that in an image generation blunder by a giant
    - Scaling too quickly without proper testing, eat your own food first, people don't test, Open AI seems to have done good job
    - Lack of cross-functional collaboration
- What are some real-world examples of organizations successfully leveraging AI?
    - Amazon's recommendation engine
    - Google's use of AI in search algorithms
    - Bharat's Bhashini, live translation Hindi to Tamil
- What advice would you give to organizations that are just starting their AI journey?
    - Start small and scale gradually
    - Invest in data quality and talent
    - Stay mindful of ethical implications throughout the process, because at the end of the day, you OWN the results, wherever it comes from, even if it comes from Open AI APIs
- Your #1 tip for developers today?
    - Take up any problem, from your domain and solve it via different methods such as rule-based, machine/deep-learning and generative AI i.e. prompts and with RAG wherever it permits. You will see the pluses and minuses, e.g Info extraction, Midcurve Generation, etcMake everyone in your team right from top to bottom, AI literate, they should know the lingo, what it does. Continuous update.
    - Reserved some team to explore and try out the latest tech for your problems. Instead of approach: now we have AI hammer where are problem nails?, go with a problem centric approach.
    - Use ready APIs to start with, with few shots, then RAG, then Fine Tuning, then pre-training.