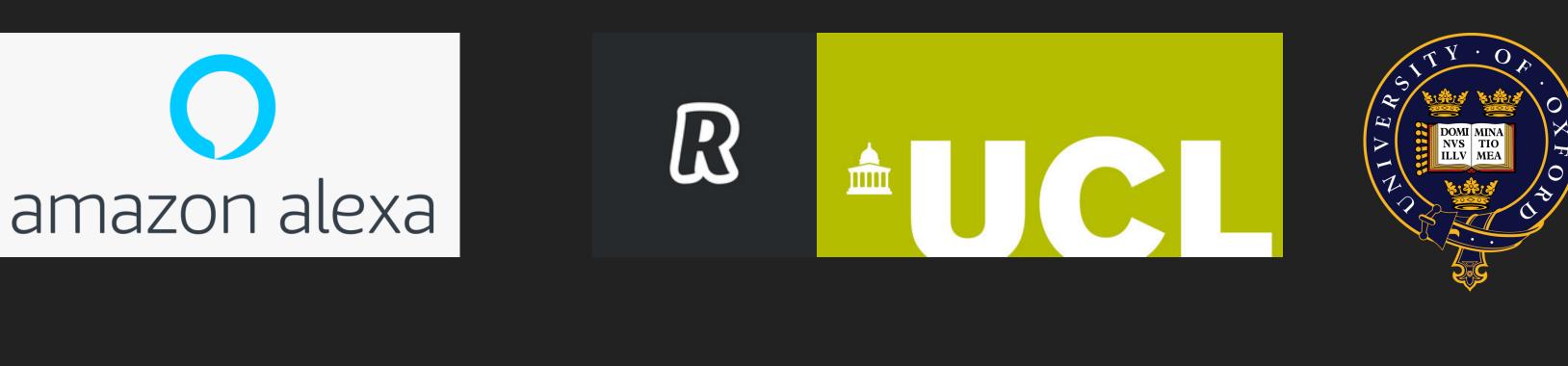
PV EXPERT PANEL A FOR STARTUPS

SUNDEEP TEKI, PhD





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ARTIFICIAL INTELLIGENCE

- Startups
- Data
- Trends
- Strategy
- Investments
- Consulting

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ARTIFICIAL INTELLIGENCE: STARTUPS

► Al-First

E.g. Toch, Niki (IPV); Alexa Echo, Self-driving cars

AI-Enabled

Al is used to automate and scale business use cases and enhance productivity

► Al-Infant

E.g. large enterprises that are traditionally slow to adopt new tech

Al serves as the foundation of the core Product / Service that drives business revenue

- E.g. use of chat bots to automate repetitive customer messages and issues

In early stages of understanding and reviewing the potential of AI mainly to save costs



ARTIFICIAL INTELLIGENCE: DATA

- Structured can be solved using simpler ML models via supervised learning
 - Numerical data, e.g. transactions, clicks, views
 - Categorical data, e.g. data across different customer cohorts, locations, time periods
 - Time-series data, e.g. financial data (stock price), health (ECG)

- Unstructured best results derived using Deep learning models via unsupervised learning; rapid growth of UGC Images -> Computer Vision, e.g. product images, ID cards, facial recognition, satellite imagery e.g. customer reviews, chatbot messages, legal and financial reports Text -> NLP/NLU, Audio -> Speech Recognition, e.g. customer centre calls, sales calls, voice shopping (Alexa) e.g. user-generated videos (TikTok), security (CCTV), delivery (drones) Video -> Video analytics,





ARTIFICIAL INTELLIGENCE: STRATEGY

Digital transformation

- Data warehousing (AWS, GCP, Azure, Snowflake)
- **Descriptive Analytics (and Dashboarding)**
- Predictive & Prescriptive Analytics
 - Business Rules to capture majority of the distribution
 - ML/DL models to capture the long-tail (AI is not necessary for every use case)
- Start with simpler use cases to prove value of AI and build trust across stakeholders and teams
- Leverage Data and AI to provide Personalization for each customer to gain competitive edge
- Focus on developing a simple MVP that customers are willing to pay for; can enhance it further with more data

Cultural transformation

- Important to emphasise that AI is a tool to assist rather than replace people (HBR, 2020)
- Drive focus on 'AI helping people, and people helping AI' to unlock greater value (HBR, 2018)
- > Without cultural transformation, digital transformation is bound to *fail*



ARTIFICIAL INTELLIGENCE: TRENDS

Macro Trends

- Easier and cheaper for startups to deploy scalable AI using Cloud APIs
- Build in-house AI teams and models to achieve a differentiated right to win
- Al services presently more lucrative than Al products (e.g. AWS vs. Alexa)
- New business models based on AI still being validated across markets
- Trends in India

China and USA are leaders in deploying AI at scale; M&A; testing new business models; establishing Policy measures Now, build AI in India for the world; Tech teams based in BLR and Sales teams based in US; VCs endorse this setup Cheapest data costs in the world; growing digitization and 'Bharat' market generating huge untapped data and value Growing Tech talent base in India; but generally without a product mindset; need senior leadership to train them Government of India: drafting AI Policy framework; new Data localisation laws will favour Indian companies





ARTIFICIAL INTELLIGENCE: INVESTMENTS

- What do VCs look for in AI startups?
 - Data as a moat: strategy to acquire data at low costs to act as a differentiator
 - > IP as a moat: develop custom algorithms/models and innovate beyond public Cloud APIs
 - Technically strong founders who can envision tech/product roadmap, attract top talent
 - Clear set of use cases that solve a real problem that customers are willing to pay for
 - Ability to handhold the client during testing, integration and adoption of AI models
 - Focus on a scalable model for all clients; do not build 1 model for each client
 - As Founders, work with VCs who truly understand power of Data and AI and its applications





ARTIFICIAL INTELLIGENCE: CONSULTING

- Decoding memory from human brain activity patterns (UCL)
- Segmentation of top traders' on an online trading platform (CMC Markets)
- English Speech recognition Deep learning models for Alexa (Amazon Alexa Al)
- Offensive content detection in user interactions with Alexa (Amazon Alexa Al)
- Conversational AI, NLP, Speech use cases (Swiggy)
- Covid-19 Fake News Detection and Claim Verification (independent)







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