

The New AI Entrepreneurship

Programming AI Apps

Administrative Details

- Attendance secret code! An Age of AI Apps
 - <https://forms.gle/fY8G9e4oeiJSqYKk8>
- Slack news
 - Many of you should have a team channel for us to communicate with you
- Google sheet for people still looking for teams
 - DM or email the list if you need any assistance
- Be in a team by end of day (16 channels are currently up in Slack)

An Interactive Lecture

- John and I are both active AI entrepreneurs
 - We have done them in the past
- We are aiming to bring the latest of that experience to you
 - Don't hesitate to ask lots of questions
- We want to surface things that don't get press
 - There is a lot of AI tribal knowledge

The AI Wave is Fully Upon Us

- An entire ecosystem is developing
 - Foundation Models
 - Model Hosting
 - AI tooling
 - AI Apps
- Public awareness is well developed
 - ChatGPT
 - Perplexity
 - Deepfakes
- How bubbly is this?
 - What will survive? What will change?
 - AI is a new apex predator in the economy

What to Know About Waves

- Best environment for building lasting value from scratch
 - Entrepreneurs' agility advantage
- Rapid change is the norm
 - Adapt to latest features
- New developments can kill a product idea
 - They can also be kingmakers
- AI wave has greater potential than the dot com boom
 - Building on existing massive web and mobile infrastructure

Properties of the AI Wave

- Many of the most massive investments in history have already been made
 - 90+% of all investment in AI is local
 - High concentration of skill
- More level playing field than most
 - Few moats for competitive advantage
 - Agility, knowledge of market key
- Every single business sector will be transformed
 - Complex, Tedious, Time consuming tasks simplified
- Emergence of AI first companies

Major Changes in 2024 (since last iteration)

- Landscape
 - Huge context windows (RAG significantly less business critical)
 - Easier to implement agentic workflows, even as demos
 - Open source models quickly match foundation models
- Features
 - Multi-Modal capabilities mix text, voice, image, video
 - Function calling and Structured output
- Cost
 - $\frac{1}{4}$ to 1/10 the cost for similar output
- Business Awareness
 - Every company is investigating using AI

Benefits for Current Entrepreneurs

- Scalability
 - Steps from prototype to production far better defined
- Platform choices
 - Lock in is less pronounced than with cloud providers
- Sales Motion
 - Show actual results to potential customers in days rather than weeks
- Pricing
 - Can factor in price drops to revenue model

Tools to Consider

- Languages
 - Python
 - Javascript/TypeScript
- UI (time efficiency is important)
 - Streamlit, Vercel
 - Kivy, Beeware
 - Flutter
- Tooling
 - LangChain, AutoGen, Dagworks
 - Copilot, Cursor
- Models
 - Experiment, try all if you can/have time
 - Claude for Teams

CS 224G Teams

Teams (1)

AI-ppeal

Argus AI

Avia

Childcare Ease AI

D8A

Hallucination Nation

Impact Lite

Links

Teams (2)

Noah

Procure AI

Proof Checker

Reclaim LA

Temporal Planning

Tutor

Verbo AI

Waitless Mental Health