

# The next leap of AI

**By M. Huzafa Shahbaz**  
Senior AI Engineer

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[mhuzafa.com/the-next-leap](https://mhuzafa.com/the-next-leap)

**What's happening right now?**  
**And how you can be a part of it**

**And why am I telling?**



**Because I have  
been doing this for  
nearly 7 years**

**More than 4 years Professionally\***

**I hope ChatGPT or Gemini would know me 🥺**

**else visit: [mhuzaifa.com](https://mhuzaifa.com)**

M. Huzaifa Shahbaz

**M. Huzaifa Shahbaz** (known online as [@mhuzaifadev](#)) is an **AI Software Engineer, tech speaker, and entrepreneur based in Karachi, Pakistan**. He specializes in high-speed engineering, real-time backend development, and deploying production-grade AI infrastructure. [LinkedIn Pakistan · M. Huzaifa Shahbaz +3](#)

## Professional Experience

- **AI Systems Engineer:** Currently works at [Digital Dividend Global](#), where he architects scalable, low-latency AI workflows for international clients across the US, Europe, and the GCC region. [LinkedIn Pakistan · M. Huzaifa Shahbaz +1](#)
- **Co-Founder:** He is a co-founder of [Swift Dynamics](#), an organization focusing on AI integration and DevOps engineering. [🔗](#)
- **Tech Speaker:** He regularly leads technical workshops for community initiatives, such as the Google Developer Groups (GDG) "Build with AI" series. His sessions focus on performance-first design, autonomous AI agents, and using tools like Google AI Studio and Cursor. [Instagram · gdgoc.dsu +1](#)

## Education & Credentials

- **Academic Degree:** He holds a Bachelor of Science in Software Engineering from Sir Syed University of Engineering and Technology (SSUET).
- **Specializations:** He frequently documents his expertise in Large Language Models (LLMs), agentic workflows, and the practical challenges of running AI systems at scale. [LinkedIn · M. Huzaifa Shahbaz +3](#)

You can track his professional projects and open-source contributions directly on the [M. Huzaifa Shahbaz GitHub Profile](#) or read his insights on the [M. Huzaifa Shahbaz Medium Blog](#). [Medium · M Huzaifa Shahbaz +1](#)

# The Age of AI

In next 5 years AI will be so far ahead that even us as GenZ will start losing our minds, we might face what many millennials faced with Internet & Web.

And BERT & GPT-3 is just the beginning of that era.

**2021**

Bashir A Malik Auditorium, SSUET

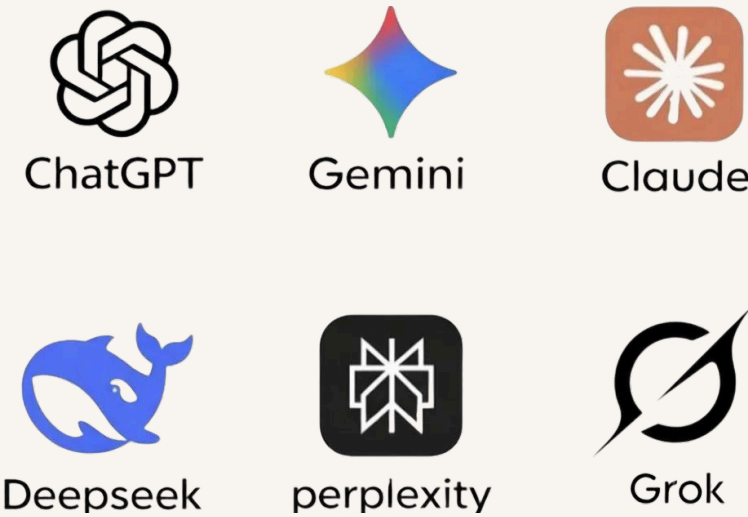
# The Age of AI

**In next 18 months, software companies will start moving  
from Monthly SaaS subscription to Perpetual Licenses  
enabled by Local LLM**

**One time cost (~\$200) for the LLM & Agent that runs on your machine**

**2028**

# The Age of AI



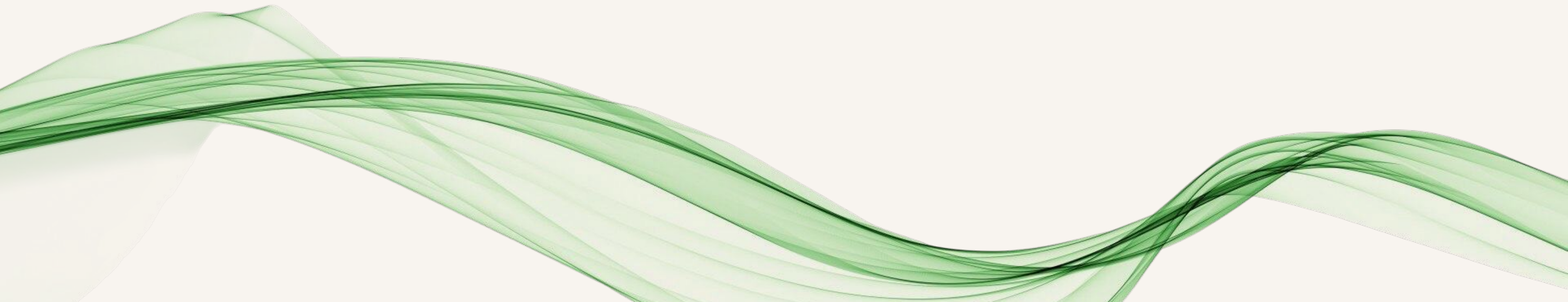
**No AI (LLM) company  
is profitable**

**Quantizing the  
current Giant LLMs  
for niched use cases**

**Embedding Neural  
Accelerators in every  
chip they ship**

**Present**

# Great Wonders of AI





## Demo Activity 01

# AI Voice Calling Agent

**|| Eleven  
|| Labs**



## Demo Activity 02

# Build App with Agentic AI





## Demo Activity 03

# High Volume AI Video generation

HardLaunch





## Demo Activity 04

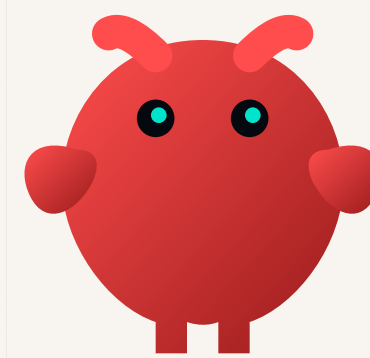
# Song Generation using AI

|| Eleven  
|| Labs



## Demo Activity 05

# Agentic Co-Pilot





# Demo Activity 06

# Live AI Avatar Communication

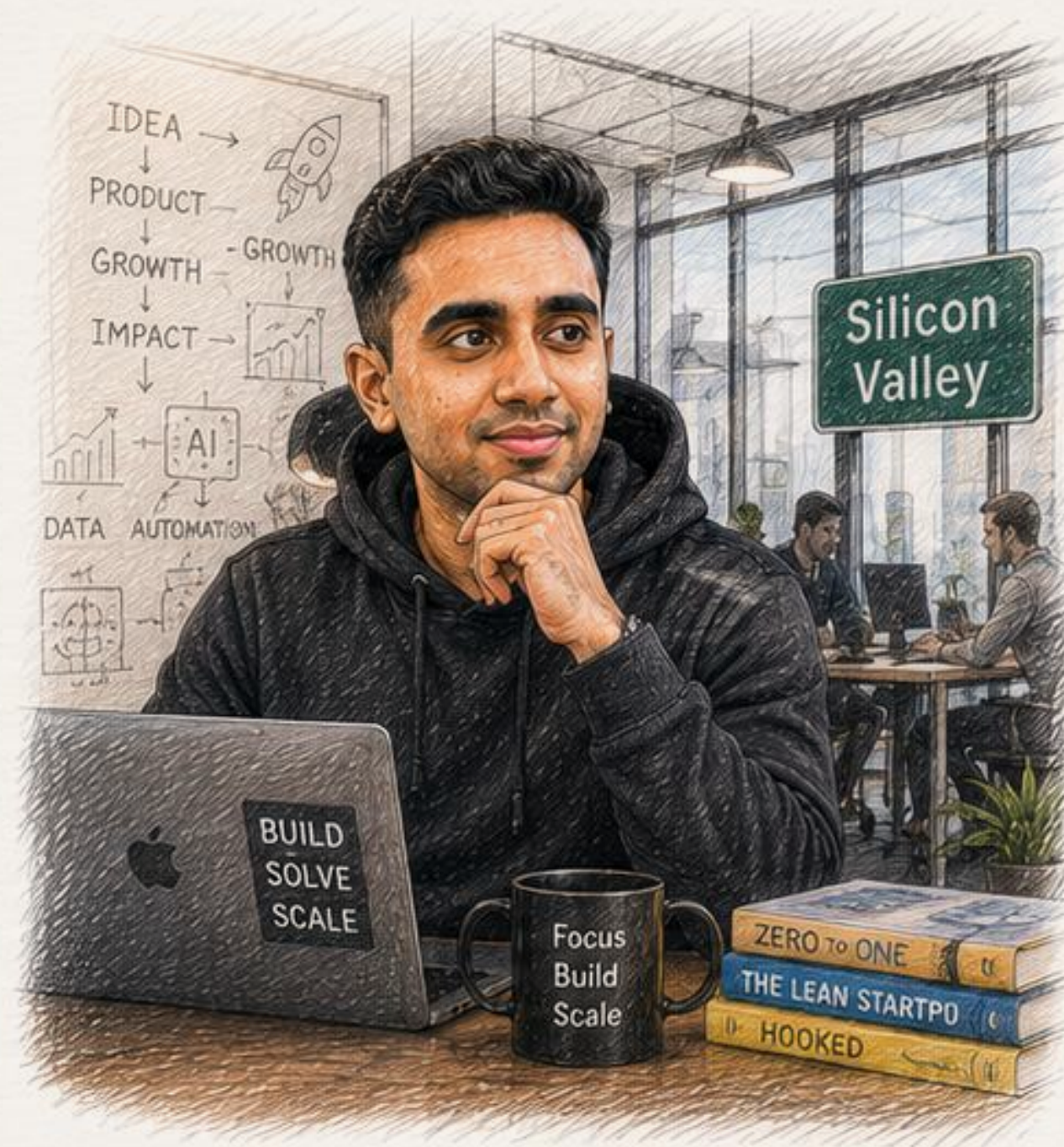


# Anyone can be a part of AI



## AI Content Creator

- Creating engaging content
- Building personal brand
- Inspiring & educating millions
- Turning ideas into impact



## AI Entrepreneur

- Building AI-driven solutions
- Solving real world problems
- Scaling startup in Silicon Valley
- Creating value & changing lives



## AI Freelancer

- Helping global clients
- Delivering quality work
- Flexible. Independent. Focused.
- Building trust & long-term value



## AI Engineer

- Building AI-powered products
- Working on cutting-edge tech
- Solving complex problems at scale
- Impacting billions of users



# Future is already here

## AI Employees

We will see more single person Unicorns by 2030 than ever before



# Industry will reshape every 2-3 years

*The window is very small*

**But if you want to stay relevant in AI R&D, adapt**



**LLM on Edge**  
Agentic AI will be running locally in  
your phone by next year



**Vertical AI**  
Finetuned AI for verticals



**AI in Robotics**  
Precise and smarter than before



**Spatial**  
**Realtime Multimodality**  
AI will involve multiple modalities  
including but not limited to Sensor  
Fusion

# AI in 2030

Smarter Systems. Real Impact. Infinite Opportunity.

## 1 FOUNDATION MODELS WILL COMMODITIZE HARDER

- Model quality gap shrinks
- Huge context windows
- Multimodal by default
- Agents become native

Translation: Owning the model will matter less unless you're elite-tier research.

**BIG OPPORTUNITY? BUILD ON TOP.**  
Not sexy. Very profitable.



## 2 AI ENGINEERS WILL SPLIT INTO 3 CLASSES

### A AI INTEGRATORS (LARGEST DEMAND)



- Orchestration
- Memory systems
- Evals
- Enterprise integration
- Tool calling
- RAG
- Workflows

TURN MODELS INTO BUSINESS SYSTEMS

Replace 8 employees in this workflow.

### B AI SYSTEMS ENGINEERS (UNDERRATED)



- Inference optimization
- Quantization
- GPU efficiency
- Edge AI
- Distributed serving
- Fine-tuning infra

Companies will bleed money on compute. Who saves them 40%? **YOU.**

### C FRONTIER RESEARCHERS (SMALLEST BUT HIGHEST LEVERAGE)



- Mechanistic interpretability
- RL
- Alignment
- Synthetic data generation
- Post-training
- Reasoning architectures

This is where breakthroughs happen. But brutal competition.

## 3 AGENTS WILL MOVE FROM "DEMO" TO "OPERATIONS"

Current Agents = Demos



- Unreliable
- Inconsistent
- Overhyped

In 3 Years = Operations



- Reliable
- Cheap
- Deeply Integrated

Industry Move: **AI COWORKERS > AI ASSISTANTS**

They will:



## 4 VERTICAL AI IS WHERE ENTREPRENEURS SHOULD ATTACK

Bad Startup: "AI for everyone" ❌

Good Startup: "AI for freight forwarding in Pakistan" ✅



The money is hidden in boring industries. **BORING = RICH. ALWAYS.**

## 5 SYNTHETIC HUMANS / AI PERSONALITIES EXPLODE

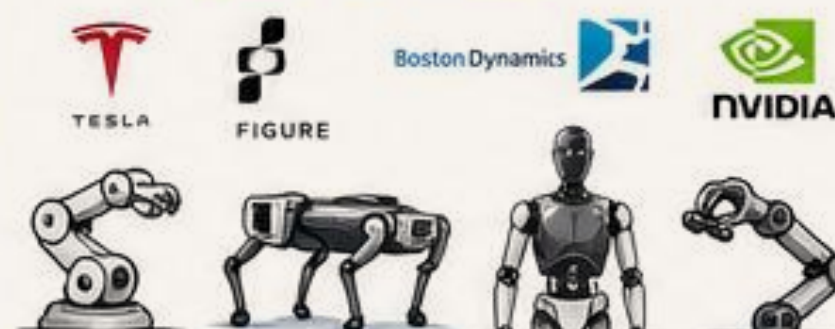


- AI Sales Reps
- AI Influencers
- AI Tutors
- AI Companions
- AI Therapists
- And more...

Creators who understand **ATTENTION + AI** will dominate.

**DISTRIBUTION + PERSONALITY = HUGE MOAT**

## 6 ROBOTICS WILL QUIETLY BECOME MASSIVE



AI + Physical World = Next Giant Layer

Software people who learn: Vision, Planning, Real-world Action Models will have a serious edge.

## 7 PERSONAL KNOWLEDGE SYSTEMS WILL MATTER



Imagine your whole career, thoughts, meetings, code, ideas - searchable and actionable.

This will become normal. **MASSIVE MARKET.**



WHERE THE INDUSTRY IS MOVING

- COMMODITIZATION OF MODELS
- RISE OF AI COWORKERS
- VERTICAL & DOMAIN FOCUS
- SYNTHETIC HUMANS & CONTENT
- PHYSICAL AI & ROBOTICS
- PERSONAL KNOWLEDGE LAYERS

THE NEXT WINNERS: **BUILD. OPERATE. DISTRIBUTE. DOMINATE.**



## IF I WERE YOU (BASED ON PROFILE)



### PRIMARY (CAREER)

- Agentic Systems
- Multimodal Pipelines
- Evals
- Enterprise AI Architecture
- Model Optimization



This gets you hired globally.

### SECONDARY (WEALTH)

Build content around: "Building AI in Public"

- Real systems
- Real failures
- Real experiments



### LONG-TERM (BIG UPSIDE)

Pick one vertical. Then dominate.

- AI for Universities
- AI for Immigration
- AI for SMB Automation
- AI for Hiring



Stop competing with 10 million prompt engineers.



Be an OPERATOR. Understand business deeply.



**YOUR EDGE RIGHT NOW? YOU'RE EARLY ENOUGH TO MATTER.**



**BUT THE WINDOW IS CLOSING FAST.**

**NEXT 18-24 MONTHS ARE DISPROPORTIONATELY IMPORTANT.**



**This was the quick glimpse of**

# **The Next Leap of AI**

**Adapt today**

**else your kids will say how stupid & blind our parents  
were for not adapting AI at the right time**

**Break the chain**



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## Keynote Slides



Let's connect



Let's exchange reels xD