

Pak Angels Essential Generative AI Training – Cohort 2

October 5, 2024



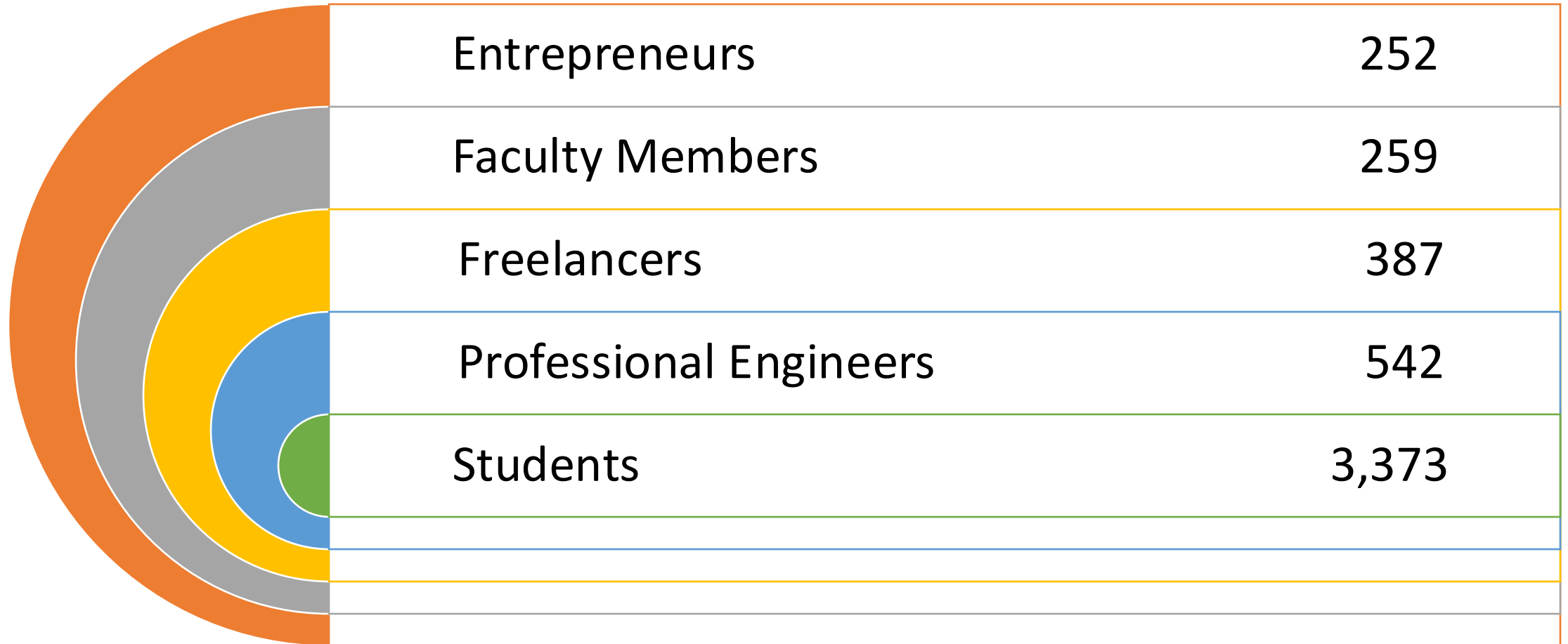
With the collaboration of iCodeGuru, Aspire Pakistan
The Engineers Pakistan, OPEN Global, and Silicon Valley, CA Friends

Module 1: Intro to Generative AI

Saturday, October 5, 2024, Pakistan Time (PKT)

- 7:00 pm - **Holy Quran Recitation** – Izharullah – Nowshera
- 7:03 pm - **Welcome to the Essential Gen-AI Training Program**, Mohammad Anwar Khan, Founder & President, Pak Angels - Silicon Valley, CA
- 7:15 pm - **Gen-AI: A Game-Changer!**, Zafar Shahid, Founder/CEO, iCodeGuru, Technical Lead, Video Infrastructure, Meta - Silicon Valley, CA
- 7:25 pm - **Gen-AI: A Huge Opportunity for Pakistan!**, Hassan Syed, Founder & Chairman, Aspire Pakistan - Karachi
- 7:35 pm - **Gen-AI: Revolutionizing Entrepreneurship!**, Naeem Zafar, Dean's Fellow and Visiting Lecturer at UC Berkley, California - Silicon Valley, CA
- 7:45 pm - **Journey to Generative AI from Graphic Designer in 3 months!** Muhammad Danish Iqbal - Islamabad
- 7:55 pm. - **Founded Gen-AI enabled Musicfy.lol at the Age of 19!** 5 million users today, Arib Khan, Founder & CEO - Silicon Valley, CA
- 8:05 pm - **Gen-AI: To Drive Growth for All Industries!**, Mohammad Anwar Khan, Entrepreneur, FinTech, Pak Angels – Silicon Valley, CA
- 8:25 pm - **Using Gen-AI, Building Powerful Chatbots!**, Hassan Syed, Founder Aspire Pakistan - Karachi
- 9:00 pm - **Adjourn**

4,813 Registered Participants for this Program



Pak Angels Essential Gen-AI Training

Six Weeks

Module 1: Introduction to Generative AI
Saturday, Sept 28th & Sunday, Sept 29th, 2024
Practice Sessions: Monday – Friday
Quiz 1

Module 2: Online Dev Platforms & ChatGPT Python
Saturday, Oct 5th & Sunday, Oct 6th, 2024
Practice Sessions: Monday – Friday
Quiz 2

Module 3: Developing a Generative AI Application
Saturday, Oct 12th & Sunday, Oct 13th, 2024
Practice Sessions: Monday – Friday
Quiz 3

Module 4: Making Your Generative AI Application Real
Saturday, Oct 19th & Sunday, Oct 20th, 2024
Practice Sessions: Monday – Friday
Quiz 4

Module 5: Use of Generative AI Effectively
Saturday, Oct 26th & Sunday, Oct 27th, 2024
Practice Sessions: Monday – Friday
Quiz 5

Module 6: Generative AI Application Development Hackathon
Saturday, Nov 2nd & Sunday, Nov 3rd, 2024

Grand Quiz:
Monday, Nov 4th, 2024

Oct 5 – Nov 10, 2024, Gen-AI Training © 2024



Generative AI: boosts human creativity, efficiency, and problem-solving.



*Generative AI **learns patterns from vast datasets** to create novel outputs, including images, text, code, and innovative ideas.*



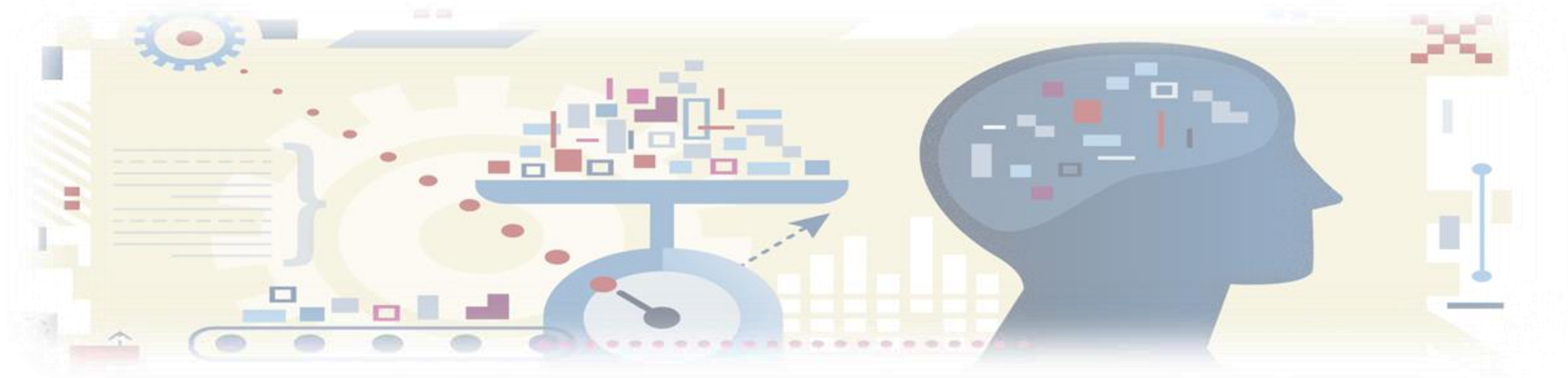
*Generative-AI **ChatGPT** from OpenAI and **Gemini** from Google are very smart because they learn from **a huge amount of information (datasets)**.*

A New Era of Innovation: Global Inclusion through Generative AI & Technology:

- **The AI Landscape is for Everyone**

- Generative AI and new software tools empower Anyone Anywhere to
 - Create Groundbreaking Products & Services for Local & Global Markets
 - Develop services for Small Medium Enterprises (SMEs) Globally
- Location is no longer the sole factor of innovation success.
- Low upfront costs enable the opportunity for Anyone to participate.





GENERATIVE AI

A GAME CHANGER!

Drives Creativity: "Generative AI is the most powerful tool for creativity that has ever been created. It has the potential to unleash a new era of human innovation."

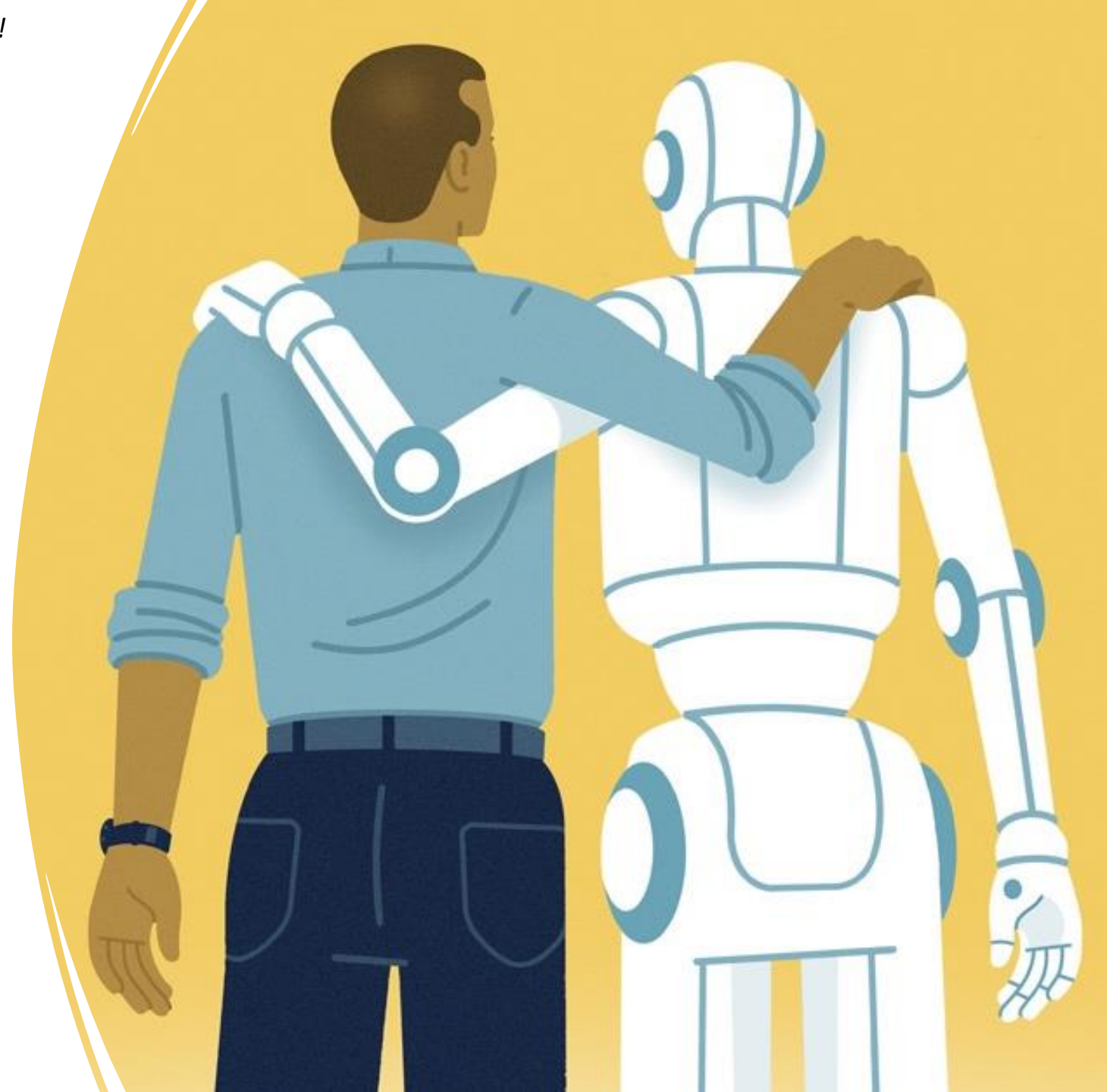
- Elon Musk (Founder of SpaceX and Tesla)

Enables Transformational Impact: "Generative AI has the potential to change the world in ways that we can't even imagine. It has the power to create new ideas, products, and services that will make our lives easier, more productive, and more creative."

- Bill Gates (Co-founder of Microsoft)

Is Generative AI going to replace your job!

- **No** - if you learn on how to use Generative AI to get ahead of others
- **May be over time** - if you ignore Generative AI and others learn it to possibly replace your job.
- **Why?** - Gen-AI Skilled Human Resources (HR) are More Efficient!



Generative AI Use Cases:

AI Use Cases Across the Enterprise Value Chain



MANAGING CUSTOMERS

Higher revenues and better customer experiences



MANAGING OPERATIONS

Optimized production, logistics, and maintenance















MANAGING SUPPORT FUNCTIONS

Faster, better, cheaper administrative processes

White Paper on Generative AI Applications for 24 Industries Relevant in Pakistan available at:



AI Use Cases Across Industries

 Transportation	 Healthcare	 Financial Services and Insurance
 Retail	 High-Tech	 Telecommunications
 Utilities, Energy, and Resources	 Manufacturing and Assembly	 Agriculture and Mining
 Consumer Packaged Goods	 Public and Social Services	 Construction and Real Estate

What is Needed for Generative AI?



Low Upfront Cost for
High Value High Margin
Business!

GENERATIVE AI IS HUGE: A WEALTH GENERATION OPPORTUNITY

McKinsey & Company: Estimates Generative AI could add the equivalent of **Up to \$4.4 trillion profit annually** across various use cases by 2040.

- [Economic potential of generative AI - McKinsey & Company]

*Pakistan Youth Population is 5% of Global Youth Population,
Represents **\$220 Billion of \$4.4 Trillion per Year!***

We just need to make ourselves SKILLED!



GENERATIVE AI: A CATALYST FOR THE COUNTRY ECONOMIC GROWTH



**Develop & Sell New
competitive products
Globally**

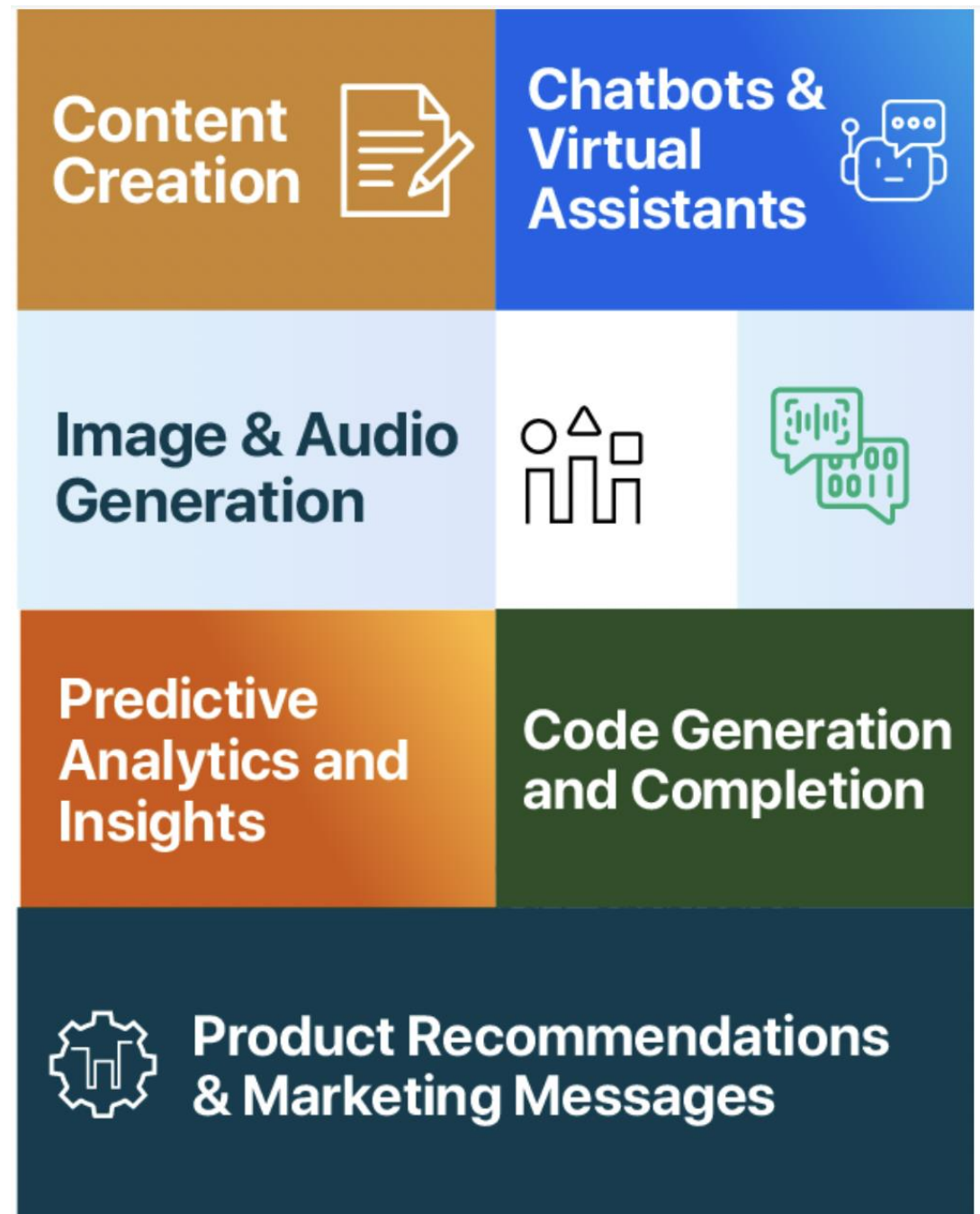
Startups, Existing & New
Industries in Any Segment

**Provide high-value
Services from Pakistan**

Freelancers, Outsource Services
Companies

Zafar Shahid on **Gen-AI: A Game Changer!**

Few Common Applications of Generative AI Models



How Gen-AI can transform your work



Students: Enhance learning, generate creative ideas, improve writing, and access personalized tutoring. Boost employability.



Faculty: Besides teaching Gen-AI, automate tasks, create engaging content, personalize learning experiences, and facilitate research.



Professional Engineers & CS: Accelerate design, optimize processes, automate repetitive tasks, and enhance problem-solving.



Entrepreneurs: Generate business ideas, develop competitive products, create marketing content, automate tasks, and analyze market trends.



Freelancers: Improve efficiency, enhance creativity, find new clients, and automate administrative tasks.

Leverage The Potential of Generative AI to Drive Business Success



Essential Generative-AI Training - Approach

- Recognize the power of Generative AI, as a game changer locally and globally
- Learn an easy way to put together Gen-AI applications
 - Learn Python Language and Gen-AI Models, and where to find the existing Models
 - Find an existing Gen-AI model relevant to your target application.
 - There are thousands of already developed Gen-AI model exist in public domain.
 - Train it with contextual (relevant) data
 - Complete the application to the target needs, with a proper UI experience
- Learn how to exploit this Gen-AI knowledge for your respective needs, serving your customers both locally and globally
- Quiz & Certificate

Generative AI in Textile Industry

- Material design
- Pattern creation
- Personalized clothing
- Supply chain optimization
- Trend forecasting
- Inventory management
- On-demand manufacturing
- Quality control



Generative AI in Healthcare

- Drug discovery and development
- Health problem diagnosis accuracy
- Personalized medicine
- Medical imaging analysis
- Robot-assisted surgery
- Drug repurposing
- Clinical trial design

Generative AI in Healthcare



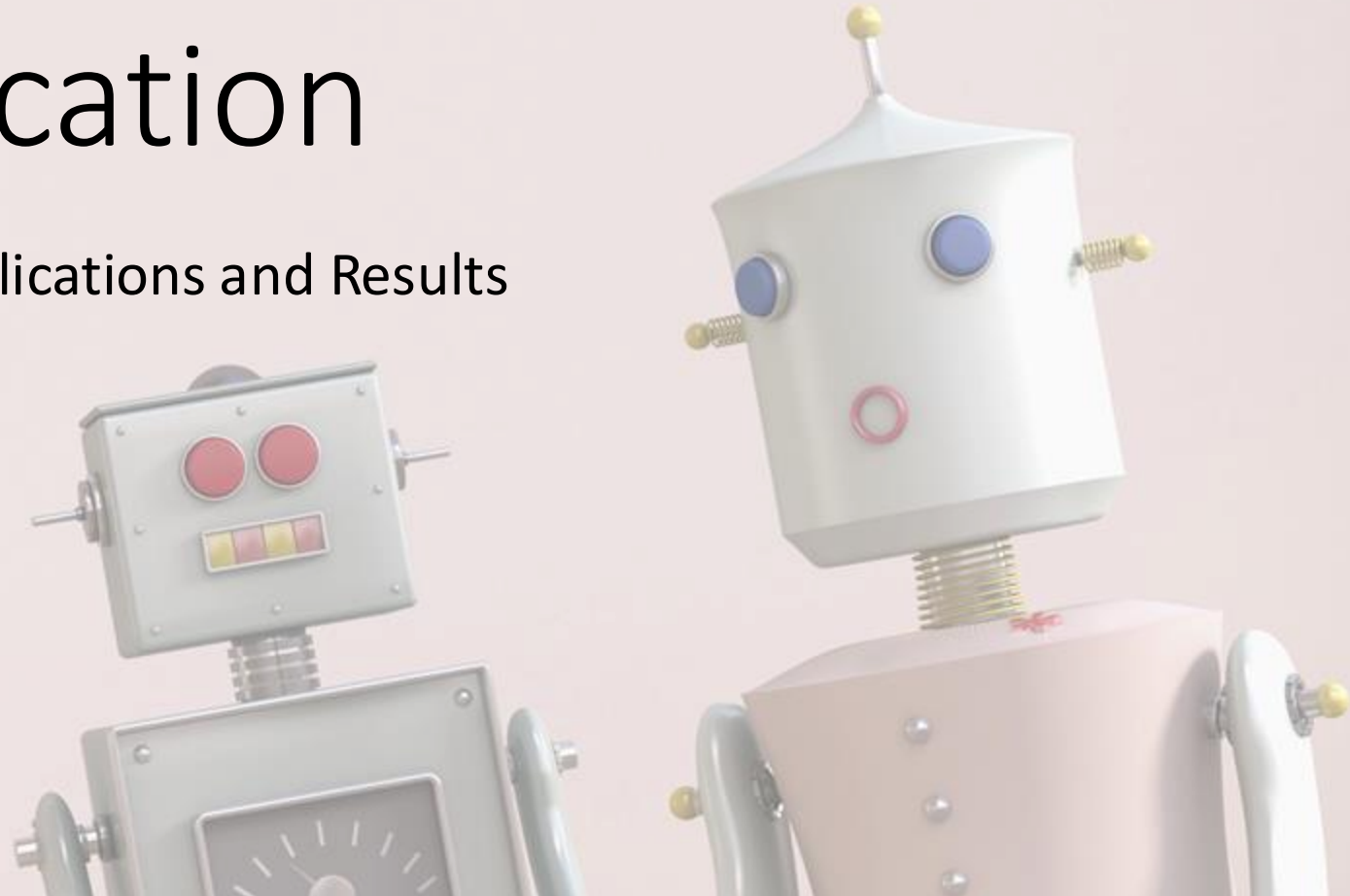
Generative AI in Manufacturing

- Predictive maintenance
- Supply chain optimization
- Robot-assisted manufacturing
- Quality control
- Process optimization



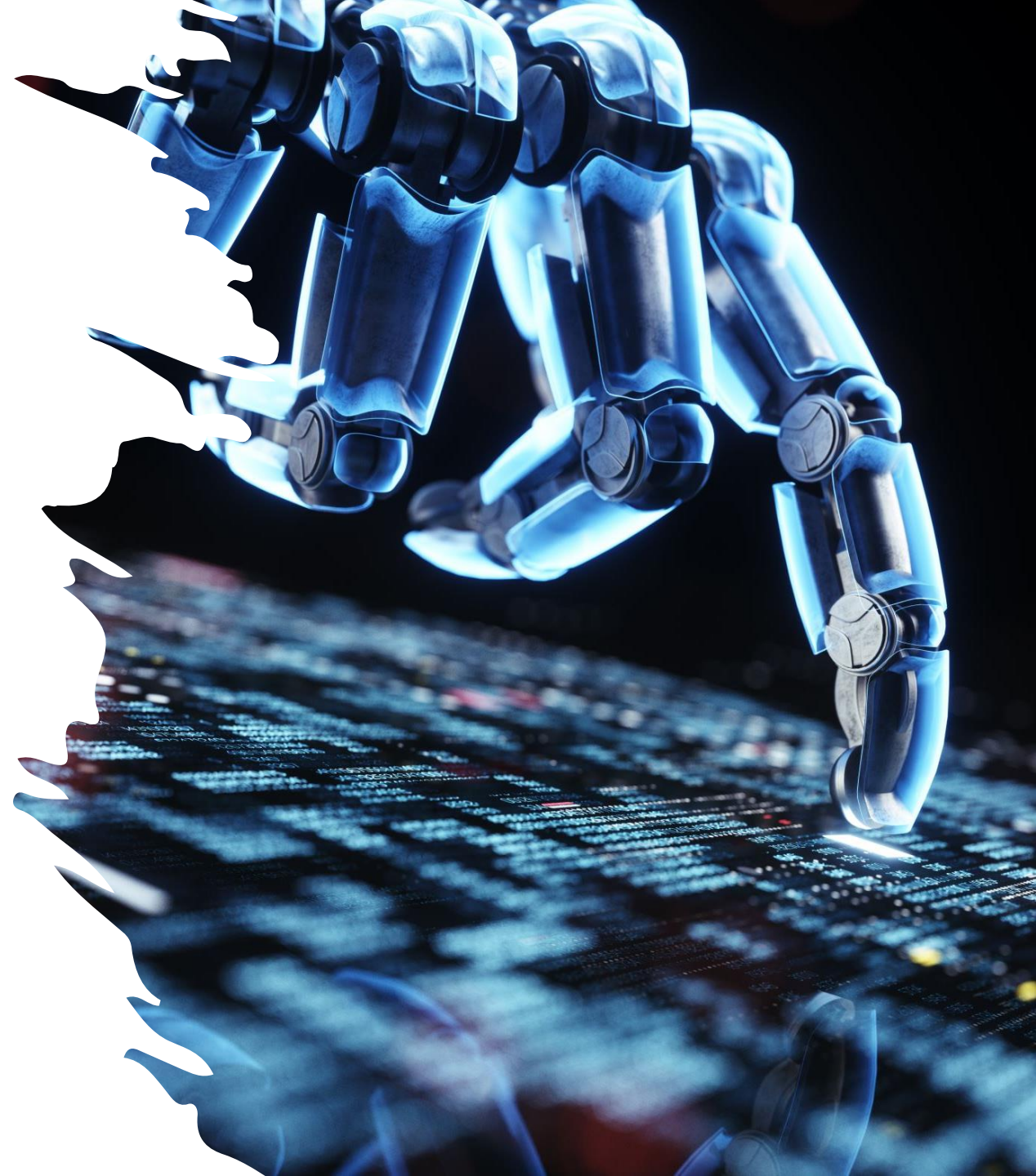
Chatbots in Education

Practical Applications and Results



Introduction to Chatbots

- Generative AI
- Use Natural Language Processing
- Build using Large Language Models
- Generic or highly specialized
- Scalable
- Personalized
- Low-Cost



Value Proposition

- Cost Savings
- Operational Efficiency
- Improve Resource Allocation



Georgia State University

- Chatbot: Pounce
 - Purpose: Reduce Summer-Melt (not enrolling after summer)
 - Launched: 2021
 - Results: 22% decrease in Summer-Melt
 - Bonus: Received better grades and were more likely to pass
- [EdTech Magazine](#)

California State University, Northbridge

- Chatbot: CSUNny
- Purpose: Improve Student Retention and Graduation Rates
- Launched: 2018
- Preliminary Results: Increase in retention and graduation
- Full report expected in 2025

• <https://www.csun.edu/admissions-records/csunny>

Application Areas

STUDENT SUPPORT

ADMINISTRATIVE
SUPPORT

FACULTY SUPPORT



Chatbots, I launched

- CareerGPT
- StartupGPT
- WorkingAbroadGPT
- IdeasGPT
- FYPGPT
- HoroscopeGPT
- WebMD




Leading Globally

- CareerGPT – Globally Number 2
- StartupGTP – Globally Number 8
- WorkingAbroadGPT – Globally Number 9
- IdeasGPT – Globally Number 15
- FYPGPT – Globally Number 16




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Since Cohort 1

- Trained Medical Doctors and Engineers
 - With not tech background
 - Launched 20+ bots
 - No-code platform with built-in monetization
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Featured Chatbots by Doctors

- DowBot – Find the right doctor
bots.ideagist.com/dowbot
 - Medical Tutor – Study companion for doctors
bots.ideagist.com/medicaltutor
 - MindPal – Companion for Dementia Patients
bots.ideagist.com/mindpal
 - CardiacGPT – Help you with your heart's health, lifestyle and emergency
bots.ideagist.com/cardiacgpt
- 
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Your Opportunity Today

- Start thinking about ideas
- Submit your idea to our Chatbot Launchpad
- <https://ideagist.com/botentry>

Conclusion