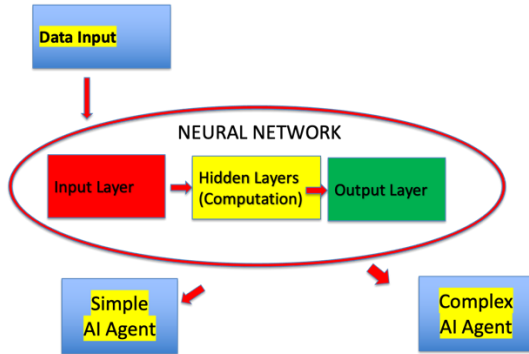




# OK, NOW PAST BASICS AND ONTO YOUR CAREER



**AI Design Technical Expert**

**AI Implementation Expert**

**Add AI technical expertise to your degree**

**Become a NextGen AI Entrepreneur**

**Gig Economy vs. Corporate**





# NEXT GEN AI CAREER PATHS



- AI literacy is now as essential as computer literacy was a generation ago.
  - Learning early gives students a competitive edge — college, career, and creativity.
  - Parents can learn alongside their kids to understand how AI tools are reshaping work and education.
- Suggest starting with two end to end learning platforms for ease of moving forward .....



# Start with Free AI Introductions



## 1 Google

- Breadth:** Covers everything from entry-level awareness (AI Essentials) to professional certifications (Machine Learning, Data Analytics, Cloud AI).
- Strength:** Structured learning paths through **Coursera** and **Google Cloud Skills Boost**, with clear, job-ready credentials.
- Best use for families:** The *AI Essentials* and *Digital Garage* content — approachable, visual, short-form, and free.

## 2 OpenAI

- Breadth:** Great for *hands-on* learning — people actually use ChatGPT to understand prompting, reasoning, and creativity.
- Strength:** Ongoing free materials on [OpenAI Learn](#) — mini-modules on prompting, reasoning, ethics, and safe AI use.
- Best use for families:** Practicing together with ChatGPT or GPT-4 Tutor prompts — builds real-world skill fast.



# RULE Prompting

- Understand *prompt* → *response* → *reflection*: experiment and verify.
- Learn safe use: bias / accuracy / plagiarism / privacy.
- Practice challenge: ask ChatGPT or Gemini to summarize your favorite topic, then refine the answer.

**To best Master AI, you must MASTER prompting  
.... Learn all you can**

Prompt Engineering for ChatGPT  
(Vanderbilt University via Coursera)



# Free AI Introductions



- **Google – AI Essentials** (*free*)

<https://www.coursera.org/learn/google-ai-essentials>

→ 4 hours, self-paced; clear overview of AI concepts and ethics.

- **DeepLearning.AI – ChatGPT Prompt Engineering for Beginners** (*free*)

<https://www.deeplearning.ai/short-courses/chatgpt-prompt-engineering-for-beginners/>

→ 1 hour; learn how to “talk” to AI tools.

- **Elements of AI (University of Helsinki & Reaktor)** (*free, global*)

<https://www.elementsofai.com>

→ 10–15 hours; great for teens and parents together.



# How These Programs Are Being Received

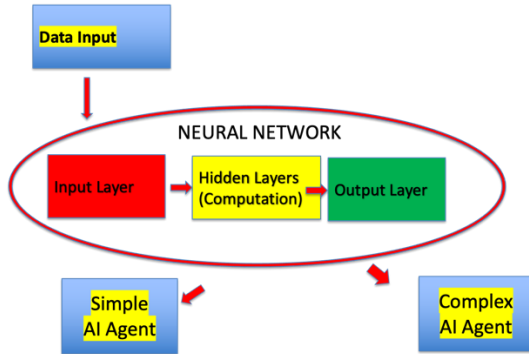


- Over 1 million students worldwide have completed free AI literacy courses like Elements of AI.
- Schools in India & China embed AI modules into STEM curricula from grade 9 onward.
- U.S. parents and teachers are beginning to adopt these programs as independent learning options.

•  
**Link:** [UNESCO 2025 AI Education Report Summary](#)



# Several Paths to Take



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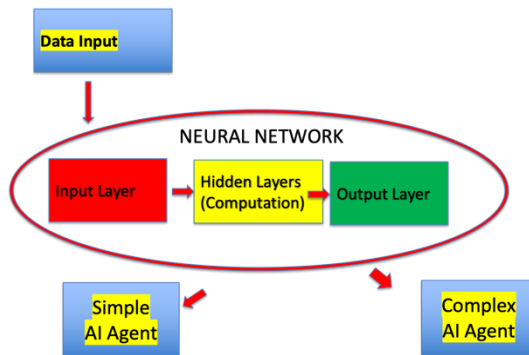


# AI Technical Expert'

**Deep technical skills in Artificial Intelligence, Data Science, or Robotics**

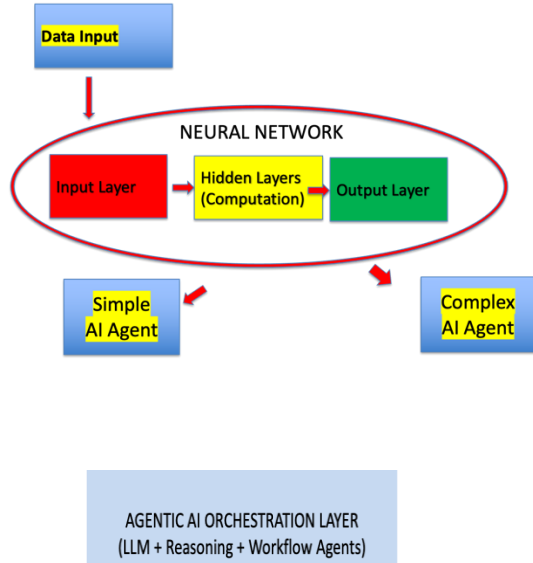
**In high demand now — and demand will continue to grow**

**Employers need specialists who can build, improve, and manage AI systems**





# AI Implementation Expert



Fastest growing DEMAND in Business ... whether big  
Or small business

Requires understanding of traditional Business Systems as well AI Agents and how they can interact ..

Workflow / Authentications / Actions all required between systems

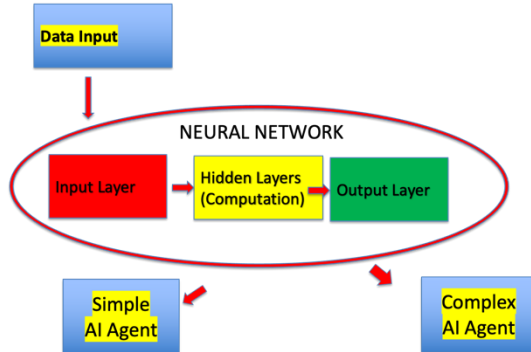
How AI works WITH Humans ... not Replace

Human Resources Sys Financial System

Manufacturing Syste Sales / CRM System



# Add AI Technical Expertise to Your Degree



**BUSINESS  
ENGINEERING  
EDUCATION  
LIBERAL ARTS  
HEALTHCARE  
SCIENCES**

- **Business major: Use AI for market research, customer segmentation, and financial modeling**
- **Education major: Build AI tutoring apps or homework helpers that personalize learning**
- **Engineering major: Use AI to prototype designs, test simulations, or optimize energy use**



# Why AI Certifications Matter

AI certifications provide structured, credible pathways to build both technical and applied skills:

Validate your understanding of machine learning, data, and automation.

Show employers you can design or implement real-world AI systems.

**Differentiate yourself in a rapidly evolving job market.**

Gain credentials from trusted institutions (Google, Microsoft, IBM, Stanford, etc.).



# How Certifications Translate to Real AI Capabilities

- AI certifications focus on both design and implementation tracks:
- **\*\*Design Track:\*\*** Learn to architect AI systems — define data inputs, model structure, and performance goals.
- **\*\*Implementation Track:\*\*** Learn to deploy AI models, integrate APIs, and use tools like TensorFlow, PyTorch, or Azure AI.



# AI Certifications (U.S.) — Design, Build, and Implement AI

- Current key certifications in the U.S.
- Organized by Design AI Engines, Design AI Agents, and Implementing AI.
- For a deeper search, students can use ChatGPT to explore additional programs.



# Design AI Engines — Certifications



- 1. LaGuardia Community College — AI Certification Program: foundational courses and specializations in NLP, computer vision, and engineering.
- 2. University of North Texas — Graduate Academic Certificate in AI: 12-hour advanced credential for STEM professionals.
- 3. Harvard Extension School — AI Graduate Certificate: deep learning, NLP, and ethics.
- 4. Drexel University — Graduate Certificate in Applied AI & ML: practical AI/ML applications for data science and computation.



# Design AI Engines — Certifications



- AWS Certified AI Practitioner — foundational knowledge of AI, ML, and AWS tools.
- Certified Artificial Intelligence Engineer (CAIE™) — demonstrates design and engineering of AI systems (USAI®).
- Stanford Artificial Intelligence Graduate Certificate — academic credential covering AI principles, ML, and robotics.
- NVIDIA Deep Learning Institute Certification — practical skills for building and optimizing neural networks.



# Design AI Agents — Certifications



- 1. University of Florida — AI Fundamentals Certificate: multidisciplinary foundation in AI and ethics.
- 2. Northwestern University — Advanced Graduate Certificate in AI: technical and strategic AI design for industry.
- 3. Artificial Intelligence Board of America (ARTiBA) — AiE Certification: validates AI engineering and innovation skills.
- 4. Salesforce — AI Associate Credential: practical use of AI tools within the Salesforce ecosystem.



# Design AI Agents — Certifications



- Microsoft Certified: Azure AI Engineer Associate — builds, manages, and deploys AI services and agents.
- IBM RAG & Agentic AI Professional Certificate — focuses on retrieval-augmented generation and AI agent design.
- Google Cloud AI Engineer Certification — agent design using Vertex AI and generative models.
- NVIDIA AI Agents & Generative AI Foundations — training on agentic architecture and workflow integration.



# Implementing AI — Certifications



- 1. George Washington University — Graduate Certificate in AI: AI deployment and leadership in business contexts.
- 2. NVIDIA — AI Certifications: hands-on training for building and optimizing AI models.
- 3. IBM Applied AI Certificate: real-world AI model development with Python and Watson tools.
- 4. Coursera + UC Davis — Generative AI for Everyone: teaches responsible implementation and real-world impact.



# Implementing AI — Certifications



- Microsoft Certified: Azure AI Fundamentals — covers AI, ML, and generative AI concepts in Azure.
- DataCamp AI Fundamentals — teaches building, testing, and deploying basic AI models.
- AI Governance Professional (AIGP) — focuses on responsible AI deployment and compliance.
- IBM AI Engineering Professional Certificate — deep dive into ML pipelines and neural networks.



# AI for Business & Strategy — Certifications



- MIT Sloan AI in Business Strategy — executive-level understanding of AI adoption.
- Cornell Certificate in AI Strategy — focuses on ethical AI and real-world implementation.
- Harvard Professional AI Program — explores data-driven decision-making and business transformation with AI.



# Galvanize



## — Tech Education & Career Transition

- Galvanize offers outcome-driven technology programs focused on software engineering, data science, and AI.
- Programs:
  - Full-time ( $\approx 12$  weeks) or Part-time ( $\approx 24$  weeks) immersive bootcamps.
  - Real-world projects and team-based learning.
  - Strong mentorship and career coaching.
  - Focus on practical coding, machine learning, and problem-solving skills.



# How Students Can Take the Galvanize Path



- 1. Begin with fundamentals — free prep courses in Python, math, and logic.
- 2. Apply to a Galvanize Immersive Program — choose Data Science or Software Engineering.
- 3. Complete projects and build a professional portfolio.
- 4. Get career support — networking, job-readiness, and interview prep.
- 5. Launch into roles like Data Scientist, Software Engineer, or AI Specialist.
- Galvanize represents a direct path from motivated learner to professional in tech — no traditional degree required.



# Next Steps



- Pick two from each category and research.
- Work with Chat GPT to figure out which may interest you the most.
- Put together a “pathway” that compliments what YOU WANT TO DO