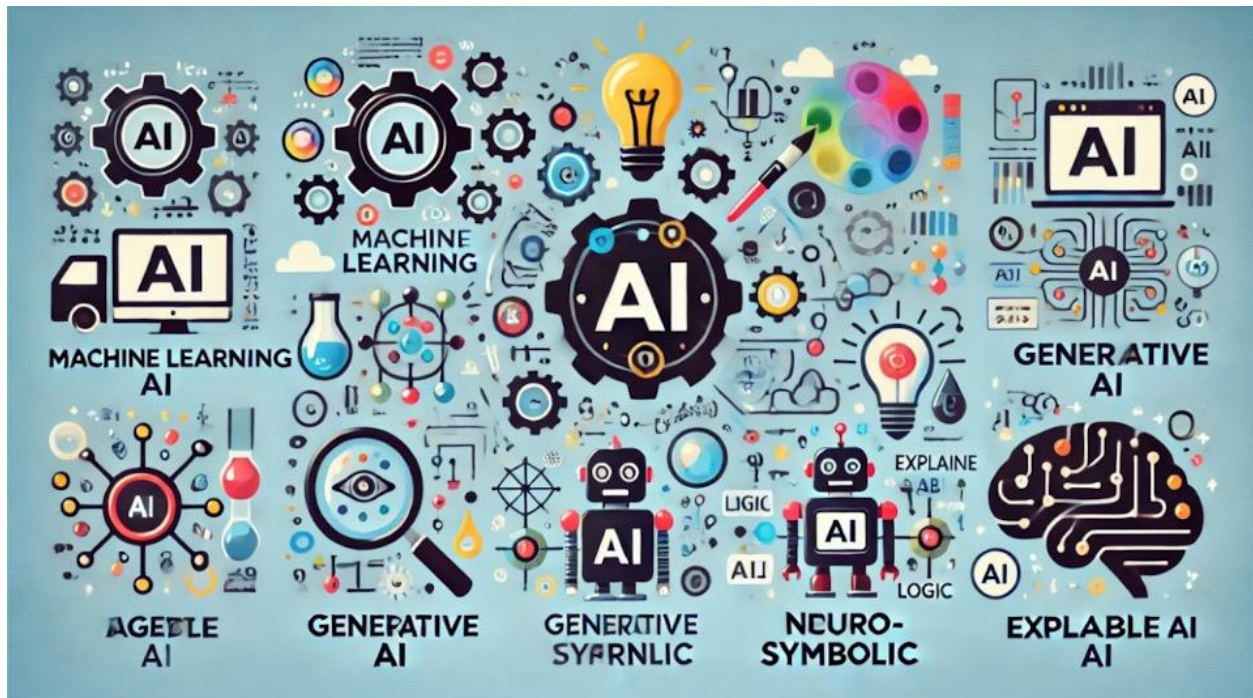


Ridgefield Seniors Spectacular Expo
with John Patrick
Saturday, April 26, 2025



- johnpatrick.com
- *AI: Fear it or Embrace it*
- *Q&A*
- *Copy of presentation: email john@johnpatrick.com*

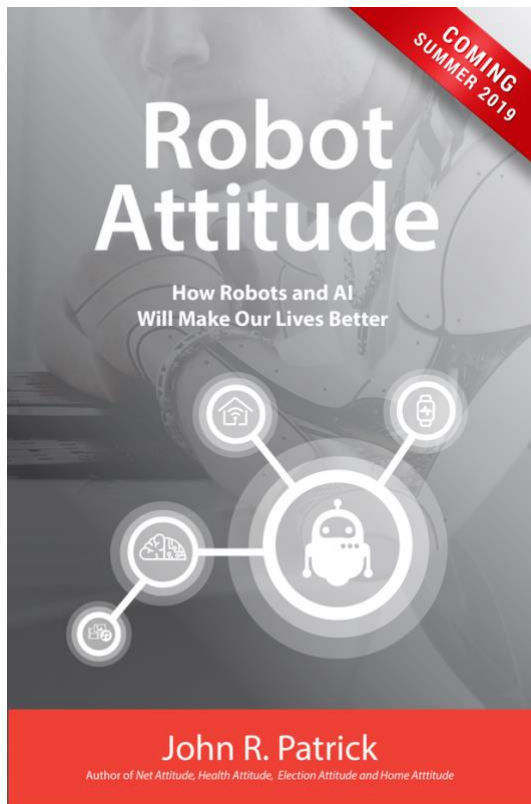
➤ *[PixVerse](https://pixverse.ai) digital video*
<https://pixverse.ai>



➤ *[Robots](https://youtu.be/GzX1qOIO1bE?si=BFWcUfmesWa1pEPw)*

<https://youtu.be/GzX1qOIO1bE?si=BFWcUfmesWa1pEPw>

- *December 16, 1994 @ MIT*
- *"Get Connected"*
- *Robot Attitude: How Robots and Artificial Intelligence Will Make Our Lives Better (2019)*
- *AI will change everything*

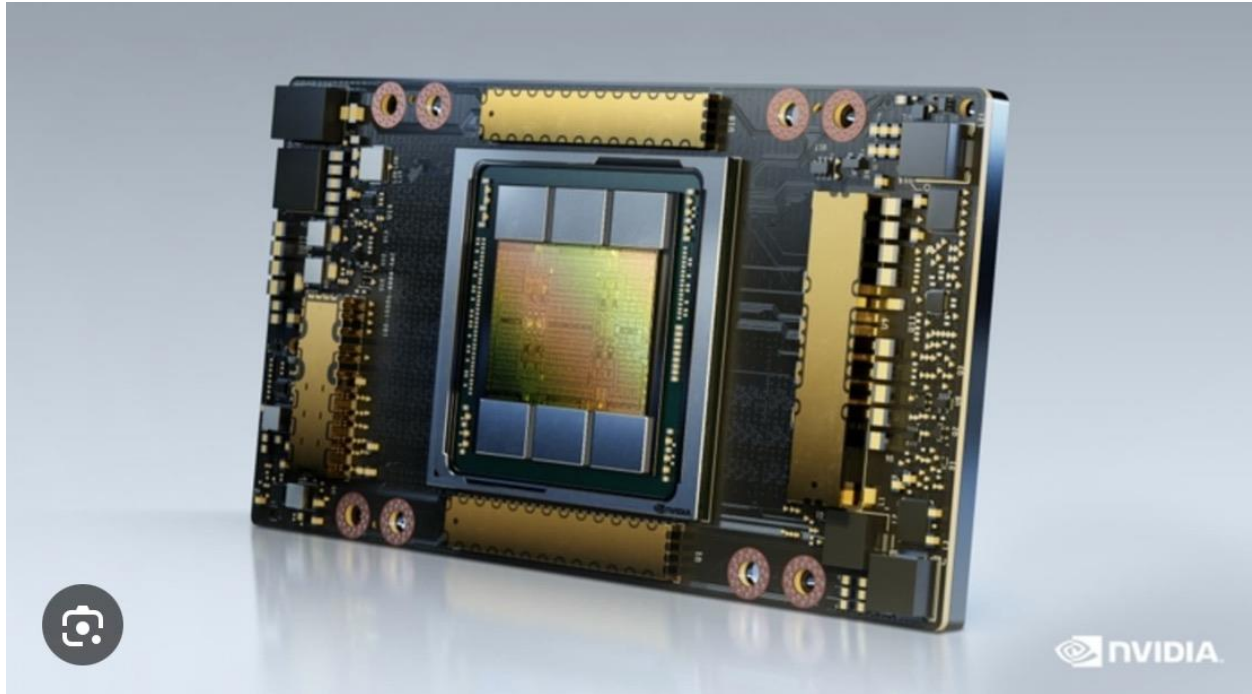


On March 16, 2023, along with 1,000+ others, I signed a letter written by Elon Musk, CEO of SpaceX, Tesla & X, and Steve Wozniak, Co-founder, Apple. The letter, published by futureoflife.org, was a plea to 'Pause Giant AI Experiments'.

Result: competition at full speed. Exponential growth.

➤ *Why exponential now?*

- ✓ Awesome computer power (Nvidia)



- ✓ Reliable and fast Internet
- ✓ Near infinite cloud storage



- ✓
- ✓ Super smart computer scientists
- ✓ Breakthroughs in algorithms
- ✓ Venture capital: thousands of startups
- ✓ Market potential > \$trillions

Many components and elements

Artificial Intelligence

Machine Learning

Neural Networks

Deep Learning

Large Language Models (LLMs)

Natural Language Processing (NLP)

Computer Vision

Reinforcement Learning

Generative AI

Transformers

Convolutional Neural Networks (CNNs)

Recurrent Neural Networks (RNNs)

Self-Supervised Learning

Supervised Learning

Unsupervised Learning

Explainable AI (XAI)

Federated Learning

Edge AI

Transfer Learning

Quantum Machine Learning (QML)

Agentic AI

Neuro-Symbolic AI

Multimodal AI

Bayesian Networks

Decision Trees

- *Generative AI: horizontal to vertical*
- *Agentic AI: making things happen*
- *Examples with Perplexity Pro*

Prompt: I have an Instant Pot. Give me a recipe for two with chicken, artichokes, angel hair pasta

Response:

Ingredients

- 2 boneless, skinless chicken breasts, cubed
- 1 tablespoon olive oil
- 1 small yellow onion, diced
- 2 cups chicken broth
- 1 cup water
- 6 oz angel hair pasta
- 1 can (14 oz) artichoke hearts, drained and chopped
- 2 cloves garlic, minced
- ½ teaspoon dried thyme
- Salt and pepper to taste
- Optional: Parmesan cheese and fresh parsley for garnish

Instructions:

1. Sauté Chicken and Onions

Set your Instant Pot to sauté mode and heat the olive oil. Season the cubed chicken with salt and pepper, then add it to the pot. Sauté for about 2 minutes until lightly browned. Add the diced onion and cook for another 2–3 minutes until softened. Remove the chicken and onions from the pot and set aside.

2. Deglaze the Pot

Add the minced garlic to the pot and sauté for 30 seconds until fragrant. Pour in a splash of chicken broth to deglaze the pot, scraping up any browned bits at the bottom with a wooden spoon.

3. Add Broth, Artichokes, and Pasta

Add the remaining chicken broth, water, thyme, and chopped artichokes to the pot. Return the sautéed chicken and onions to the mixture. Break the angel hair pasta in half if needed and layer it on top (do not stir).

4. Pressure Cook

Close the lid of your Instant Pot, set it to high pressure, and cook for 4 minutes.

5. Quick Release

Once cooking is complete, carefully perform a quick pressure release. Open the lid.

6. Combine and Serve

Gently stir everything together to combine the pasta with the sauce. Adjust seasoning with additional salt and pepper if needed. Serve hot with grated Parmesan cheese and fresh parsley for garnish.

This dish is hearty, flavorful, and perfect for a cozy dinner for two!

HDOA Board Meeting Update for January 27, 2025

Shoreline Update

Mr. Davis provided an update regarding funding of Flagler County's Beach Renourishment projects. Flagler County will be applying for FEMA Cat B funding for the HDOA shoreline since FEMA Cat G application was denied. The Shoreline Committee would be in the process of interviewing consultants who are knowledgeable about grant funding.

Prompt:

Write a grant request to FEMA for category B funding for the Hammock Dunes Owners Association shoreline. The beach and shoreline are crucial for the protection of real estate values and preservation of a beautiful beach which directly relates to real estate values and thereby protects tax revenues for Flagler County.

Response:

Grant Request for FEMA Category B Funding

Applicant: Hammock Dunes Owners Association

Project: Emergency Protective Measures for Hammock Dunes Shoreline

Project Description:

The Hammock Dunes Owners Association seeks Category B funding for emergency protective measures to safeguard the Hammock Dunes shoreline in Flagler County, Florida. This project aims to mitigate immediate threats to public safety, protect improved property, and preserve critical economic assets.

Justification:

The Hammock Dunes shoreline is a vital component of Flagler County's coastal infrastructure, providing essential protection for residential properties and contributing significantly to the county's tax base. Recent erosion and storm events have created an immediate threat to public safety and property, necessitating urgent protective measures.

Scope of Work:

1. Beach nourishment and dune restoration along 10 miles of shoreline
2. Installation of temporary erosion control structures
3. Emergency repairs to existing coastal protection infrastructure

Estimated Costs:

Total project cost: \$4,000,000

- Local share (Hammock Dunes Owners Association):
\$2,000,000

- Requested FEMA funding: \$2,000,000

Benefits:

1. Protection of public safety by reducing flood and storm surge risks
2. Preservation of improved property valued at over \$1.3 billion
3. Safeguarding of Flagler County's tax base, with waterfront properties contributing a 38% premium to property values

Eligibility:

This project qualifies as an emergency protective measure under FEMA's Category B funding, as it will eliminate immediate threats to lives, public health, and safety, while also preventing significant additional damage to improved property in a cost-effective manner[22].

Certifications:

The Hammock Dunes Owners Association certifies that:

1. It has legal authority and responsibility to undertake the proposed emergency protective measures
2. The proposed work addresses an immediate threat to the general public in the community
3. All necessary rights-of-entry and agreements to indemnify and hold harmless the Federal Government will be obtained

We respectfully request FEMA's consideration of this critical project to protect our community and preserve vital economic assets in Flagler County.

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Prompt: (with chatGPT)

I am sitting on the eighth floor of our condo building on the Atlantic Ocean. What is the distance from here to the horizon?

Response:

To estimate the distance to the horizon from your eighth-floor condo overlooking the Atlantic Ocean, we can use the formula for the distance to the horizon based on height above sea level.

Here's what we can do:

1. Estimate your height: You're on the eighth floor. Assuming typical floor heights of around 10 feet, being on the eighth floor would put you at about 80 feet above sea level.

2. Use the formula: There are online calculators for this purpose, but you can also use the following formula:

Distance to horizon (miles) = $\sqrt{\text{observer height (feet)} * 0.000052}$

3. Plug in your estimated height: Assuming 80 feet, here's the calculation:

* In miles: Distance = $\sqrt{80 * 0.000052} \approx 2.9$ miles

Therefore, the distance to the horizon from your vantage point is estimated to be around 2.9 miles.

Keep in mind: This is a rough estimate. Actual visibility can be affected by factors like air pressure, temperature, and curvature of the Earth (which isn't a perfect sphere).

Prompt (using Perplexity Pro):

Response:

From the eighth floor of your condo building on the Atlantic Ocean, the distance to the horizon is approximately 17.49 kilometers (**10.87 miles**).

This calculation takes into account:

- An average floor height of 3 meters
- Your position on the 8th floor, putting you at a height of 24 meters above sea level
- The Earth's radius of approximately 6,371 kilometers

It's worth noting that this is a theoretical calculation and doesn't account for atmospheric refraction, which can slightly extend the visible horizon. Additionally, any obstructions on the coastline or large waves could affect your actual view of the horizon.

➤ *Agentic AI*

Wild Ginger reservation

Prompt: My wife and I would like to take two of our grandchildren to Paris for three nights. Departing on May 29 and returning on June 2. Give me suggested airlines and fares, hotels, tour information, restaurants, and museums.

Response: complete travel plan

Prompt: arrange it

➤ *Pluses and Minuses of AI*

- ❖ There are plenty of both.
- ❖ Pluses
 - ✓ Robots with AI can do jobs which are difficult, dangerous, or boring.
 - ✓ 24x7, no lunch breaks
 - ✓ Boosts productivity and efficiency
 - ✓ Collaboration - enabling us to learn
 - ✓ Improved healthcare outcomes



Minuses

- ✓ Mistakes, hallucinations, confabulations, and bias
- ✓ Can spread misinformation/deep fakes. Elections. General politics.
- ✓ Can eliminate millions of jobs
- ✓ Can potentially threaten humanity

AI can now replicate itself — a milestone that has experts terrified

➤ *It's all about data and algorithms.*

➤ *Generative AI*

❖ Conversation is key.

➤ *Impact*

❖ Every organization, every person, every process

➤ *The AI Revolution in Medicine*

- ❖ Peter Lee et al from Microsoft

➤ *Population health*

- ❖ EHR
- ❖ Whole Exome Sequencing models

➤ *Medical errors, medical research, diagnoses, physician notes, paperwork, and much more*

➤ *Stethoscopes*

- ✓ Proforma auscultation, pneumonia, asthma, COPD, bronchitis, pleural effusion, cardiac irregularities

➤ *X-Rays, CT/PET scans, MRIs*

➤ *Opportunities exceed exposures.*

- ❖ Chance for healthcare to catch up.
- ❖ Go for the low hanging fruit.
 - ✓ Fax machines, post-it notes, clipboards

➤ *Robots in the home*

- ✓ Humanoid
- ✓ Tabletop

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Q&A