

SO YOUR VENDOR WANTS TO SELL YOU SOME AI BS

Pawel Martynow



**“BEWARE FOR I AM FEARLESS,
AND THEREFORE POWERFUL”**

-Frankenstein, Mary Shelly

CONTENTS

- Introduction
- Ground Rules
- Types of “AI”
- Questions To Get An Engineer
- Your Turn

INTRODUCTION

Pawel Martynow

BS, Information Systems

MS, Specialization in Information
Systems Security

CISSP (Certified Information Systems
Security Professional)

GCFE (GIAC Certified Forensic
Examiner)

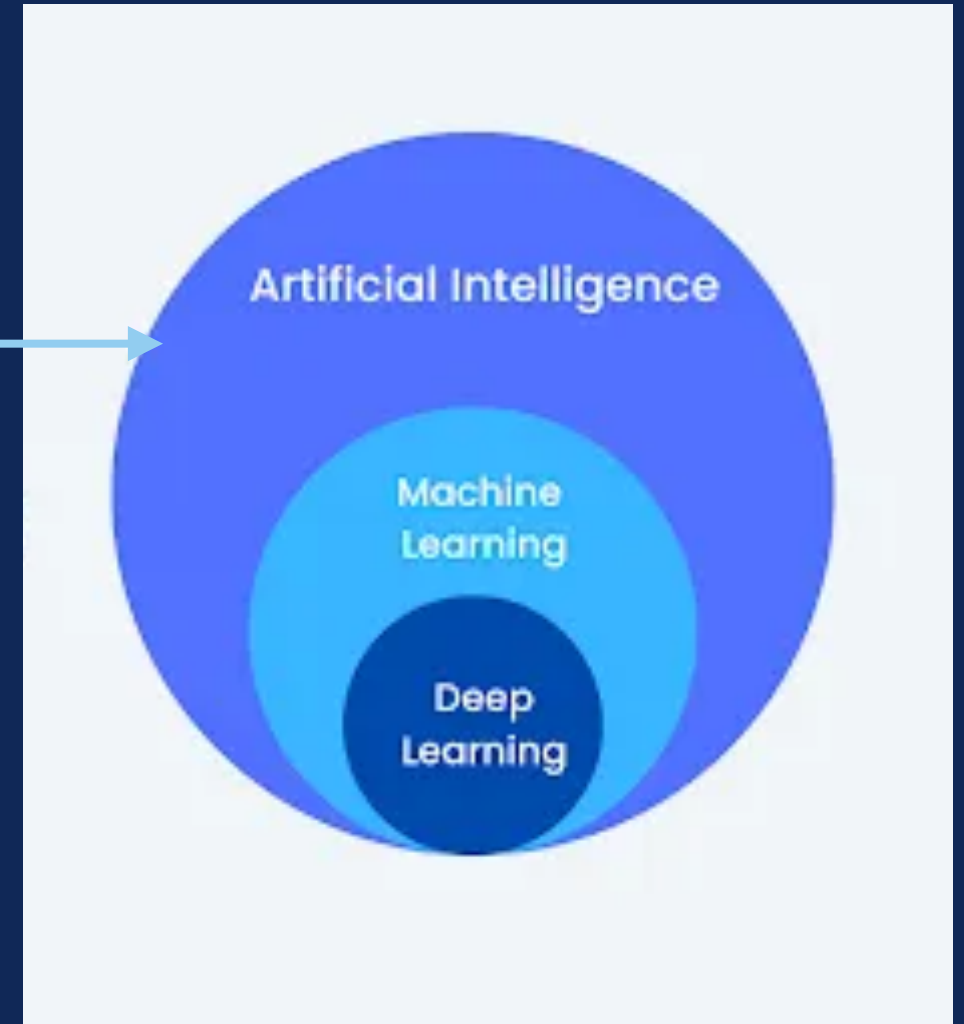
BooA (Bunch of other acronyms)



GROUND RULES

- AI:
 - A program that can sense, reason, act, adapt.
- Machine Learning:
 - Algorithms that improve as they are exposed to more data
- Deep Learning:
 - A subset of machine learning using neural networks of large data sets

Still Fiction!



TYPES OF “AI”

Classification	Predictive	Large Language Models
<ul style="list-style-type: none">• Outputs are binary• Widely used in applications: Spam filters, anti-malware	<ul style="list-style-type: none">• Outputs are decimal• Used in weather forecasting, customer evaluation, medical testing	<ul style="list-style-type: none">• Outputs are common conversational language.• Used for customer interactions, data analysis translation

WHY YOU QUESTION



World ▾

Disrupted | Govern

New York fake Cl

By Sara Merken

June 26, 2023 3:28

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how many rocks should i eat each day

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AI Overview

Learn more

According to UC Berkeley geologists, people should eat **at least one small rock a day**. Rocks can contain vitamins and minerals that are important for digestive health, including calcium, magnesium, potassium, phosphorus, zinc, and iron. Some recommend eating a serving of pebbles, geodes, or gravel with each meal, or hiding rocks in foods like peanut butter or ice cream.

ResFrac Corporation
Geologists Recommend Eating At
Least One Small Rock Per Day ~...
May 19, 2021

The Geological Society
The Geological Society

climatehubs.usda.
Climate-Smart Agri
Amendments
Some of the vital nutri
naturally in rocks inclu

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Geologists Recommend Eating **At Least One Small Rock Per Day**

"In order to live a healthy, balanced lifestyle, Americans should be ingesting at least a single serving of pebbles, geodes, or gravel with breakfast, lunch, or dinner," said Dr. [unclear]

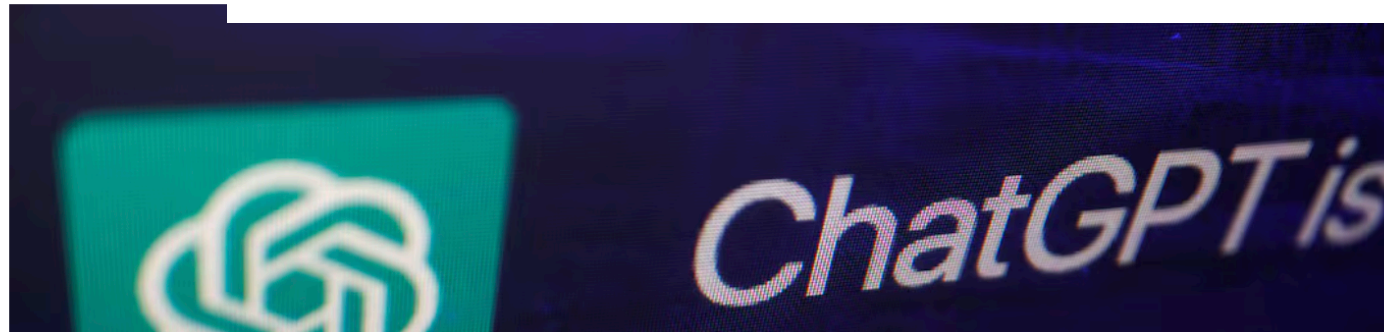


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Geologists Recommend Eating At Least One Small Rock Per Day

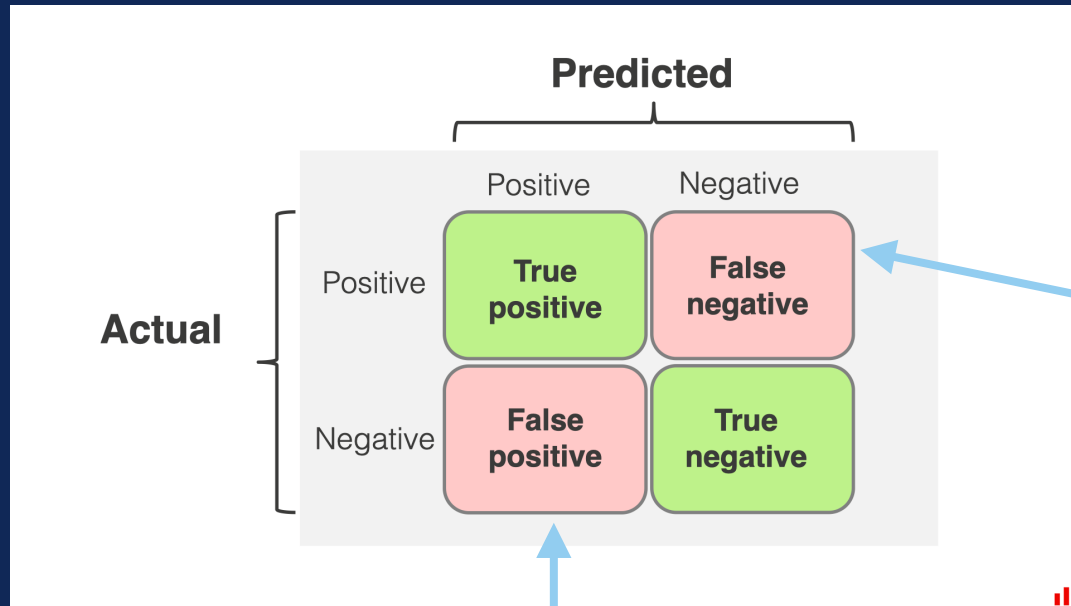
Published April 13, 2021



QUESTIONS TO GET AN ENGINEER

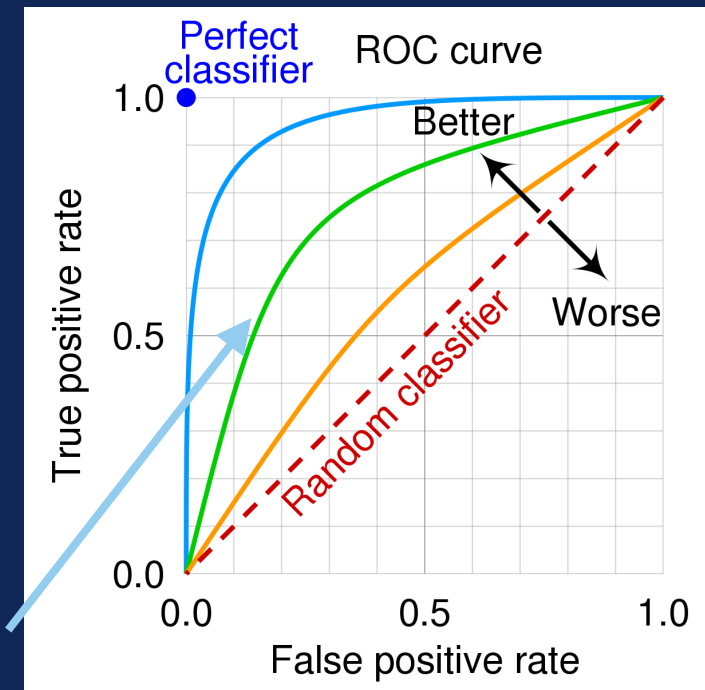
Baseline	Classification Models	Prediction model	LLMs
<ul style="list-style-type: none">• What's your methodology for regression testing?• What requirements do you have for pushing a new model to production?• What's your deployment methodology?• Co-Opt SDLC questions!	<ul style="list-style-type: none">• What's the False Negative Score? How is that being defined?• What is the precision of the model?• Are the models identifying <X> or just anomalies?	<ul style="list-style-type: none">• What's the minimum AUC allowed for models?• What is the root mean squared error of your models?	<ul style="list-style-type: none">• How are the models handling hallucination?• What vetting methods are used for the RAG functions?• How are you segregating my data from yours?• What controls are there to ensure least privileges?

VISUALS TO HELP



Wakes you up for an annoying reason

Keeps you up at night



Most of the industry is here

THANK YOU

Paweł Martynow

@CtrlAltFu

[CtrlAltFu.bsky.social](https://bsky.social/ctrlalrfu)

CtrlAltFu@proton.me

QUESTIONS?

Tips for asking good questions:

- Ask a question, not a comment
- Be brief
- Focus on one question