Artificial Intelligence For Product and Business Managers

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I'm SUDHA JAMTHE

CEO IOT DISRUPTIONS

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AI reading our thoughts

On DriverlessWorldSchool.com under CareerPivot

This video shows a Nissan car driven by a Brain Computer Interface (Braincap)
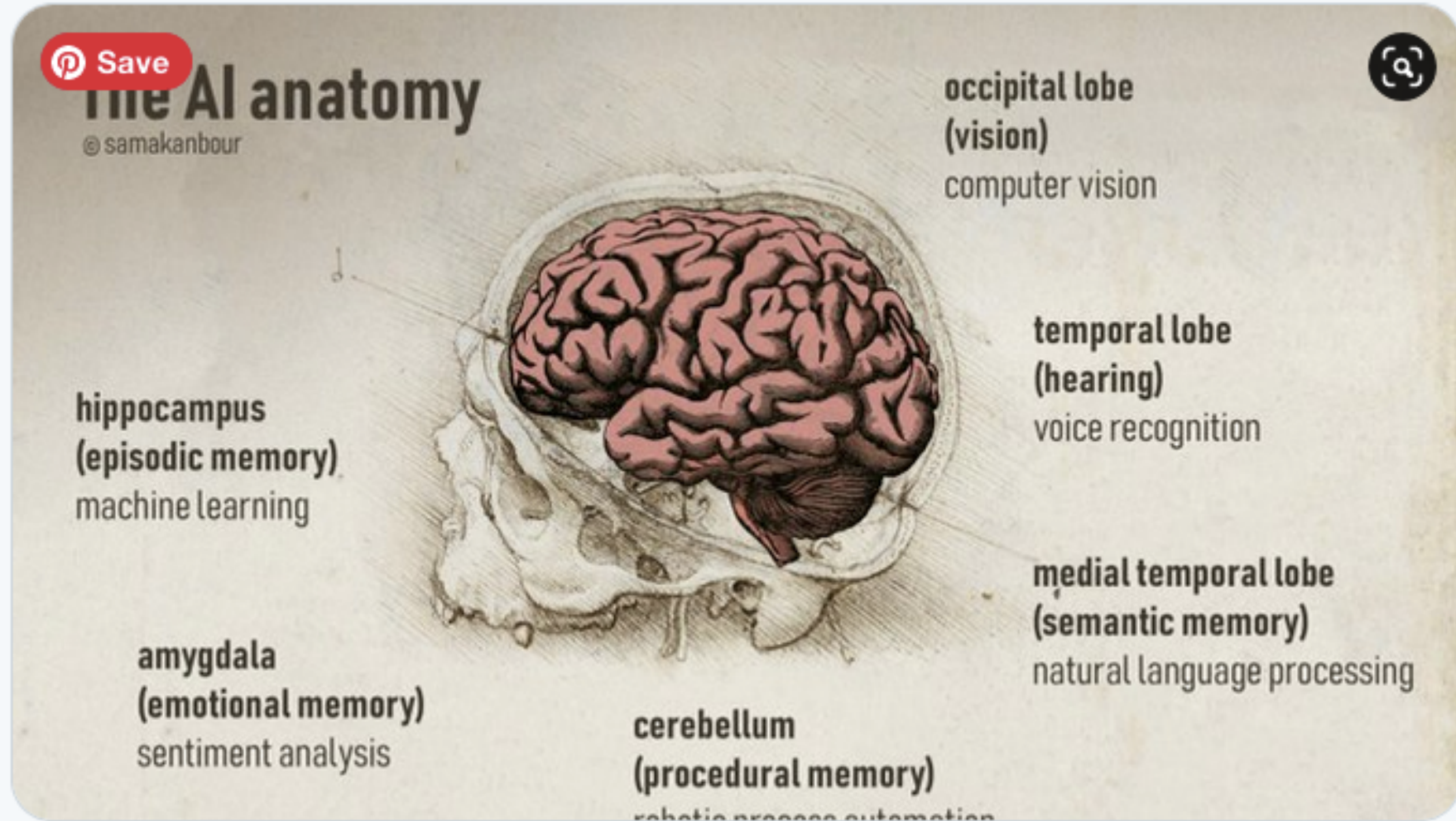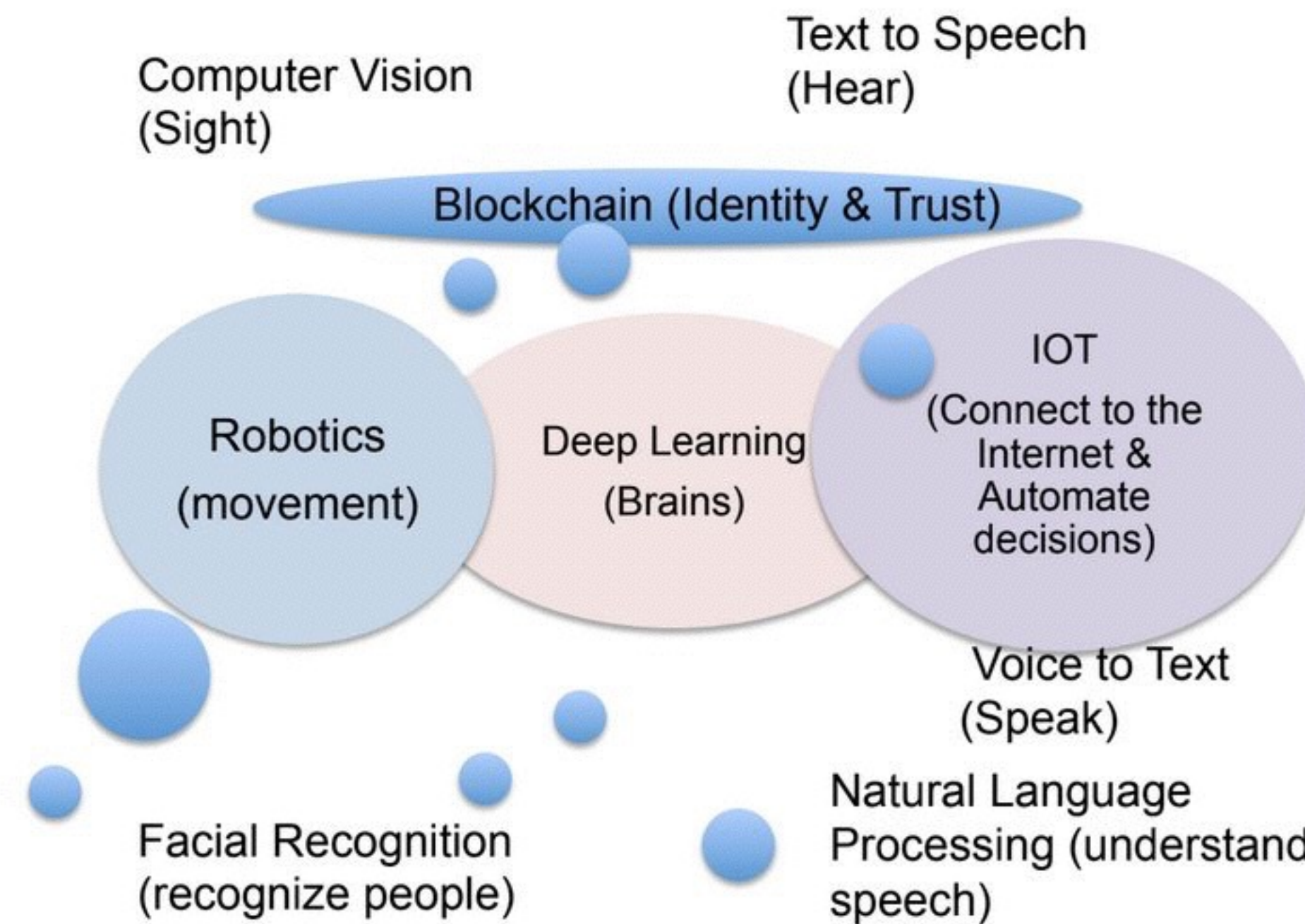
1 What is Artificial Intelligence (AI)?

Dave Wieneke @UsefulArts · Jun 1

Here's a purely wonderful explanation of the AI landscape mapped to brain structures. This is how @samakanbour popularizes AI and emerging tech. cc: @sujamthe

MACHINE INTELLIGENCE 3.0

ENTERPRISE INTELLIGENCE

VISUAL
Orbital Insight, planet, clarifai, DEEP VISION, cortica, algocian, SPACE_KNOW, Captricity, netra, deepomatic

AUDIO
Gridspace, TalkIQ, nexidia, twilio, CAPIO, Expect Labs, Clover, Mobvoi, Qurious.AI, popUP archive

SENSOR
PREDIX, C3 IoT, MAANA, Sentenai, PLANET OS, UPTAKE, IMUBIT, Preferred Networks, thingworx, KONUX, Alluvium

INTERNAL DATA
PRIMER, IBM WATSON, Cycorp, Palantir, ARIMO, Alation, sapho, Outlier, Digital Reasoning

MARKET
mattermark, Quid, Datafox, PREMISE, Bottlenose, CB INSIGHTS, enigma, Tracxn, predata

ENTERPRISE FUNCTIONS

CUSTOMER SUPPORT
DigitalGenius, Kasisto, ELOQUENT, Wise.io, ACTIONIQ, zendesk, Preact, CLARABRIDGE

SALES
collective[i], 6sense, fuse|machines, AVISO, salesforce, INSIDE SALES.COM, clari, Zensight

MARKETING
MINTIGO, Lattice, RADIUS, Liftigniter, AIRPR, MOTIVA, brightfunnel, msg.ai, retention science, [PERSADO], COGNICOR

SECURITY
CYLANCE, DARKTRACE, ZIMPERIUM, deepinstinct, Sentinel, DEMISTO, graphistry, drawbridge, SignalSense, AppZen

RECRUITING
textio, entelo, Wade & Wendy, hiQ, unitive, SpringRole, GIGSTER, HireVue

AUTONOMOUS SYSTEMS

GROUND NAVIGATION
drive.ai, AdasWorks, ZOOX, MOBILEYE, UBER, Google, TESLA, nuTonomy, Auro Robotics

AERIAL
SKYDIO, SHIELD AI, Airware, DJI, LILY, DroneDeploy, pilot.ai, SKYCATCH

INDUSTRIAL
JAYBRIDGE, OSARO, CLEARPATH ROBOTICS, fetch robotics, KINDRED, HARVEST AUTOMATION, rethink robotics

AGENTS

PERSONAL
amazon alexa, Cortana, Allo, facebook, Siri, Replika

PROFESSIONAL
butter.ai, pogo, SKIPFLAG, clara, x.ai, slack, talla, Zoom.ai, sudo

INDUSTRIES

AGRICULTURE
BLUE RIVER, mavrx, tule, TRACE GENOMICS, Pivot Bio, TerrAvion, AGRI-DATA, Descartes Labs, ubundt, abundant robotics

EDUCATION
KNEWTON, volley, gradescope, CTI, coursera, UDACITY, alt school

INVESTMENT
Bloomberg, sentient, iSENTIUM, KENSHO, alphasense, Dataminr, CEREBELLUM CAPITAL, Quandl

LEGAL
blue J, BEAGLE, Everlaw, RAVEL, seal, ROSS, LEGAL ROBOT

LOGISTICS
NAUTO, Acerta, PRETECKT, Routific, clearmetal, MARBLE, PITSTOP

INDUSTRIES CONT'D

MATERIALS
zymergen, Citrine, Eigen Innovations, SIGHT MACHINE, GINKGO BIOWORKS, nanotronics, CALCULARIO

RETAIL FINANCE
TALA, ZestFinance, Lendo, earnest, Affirm, MIRADOR, wealthfront, Betterment

HEALTHCARE

PATIENT
PULSE, CareSkore, ZEPHYR HEALTH, IBM Watson Health, Oncora, SENTRIAN, Atomwise, Numerate

IMAGE
BUTTERFLY, 3SCAN, ARTERYS, enlitic, BAYLABS, imagia, Google DeepMind

BIOLOGICAL
iCarbonX, color, GRAIL, deep genomics, RECURSION, LUMINIST, Numerate, Atomwise, verily, WHOLE BIOME

TECHNOLOGY STACK

AGENT ENABLERS
OCTANE.AI, howdy, Maluuba, KITT.AI, OpenAI Gym, Kasisto, AUTOMAT, semantic

DATA SCIENCE
DOMINO, SPARKBEYOND, rapidminer, kaggle, DataRobot, yhat, AYASDI, data iku, seldon, yseop, bigml

MACHINE LEARNING
CognitiveScale, GoogleML, context relevant, Cycorp, HyperScience, naralogics, minds.ai, H2O.ai, SCALED INFERENCE, sparkcognition, loop, GEOMETRIC INTELLIGENCE, deepsense.io, reactive, skymind, bonsai

NATURAL LANGUAGE
agolo, AYLIEN, LEXALYTICS, Narrative Science, loop, spaCy, LUMINOSO, cortical.io, MonkeyLearn

DEVELOPMENT
SIGOPT, HyperOpt, fuzzy.io, kite, rainforest, lobe, Anodot, Signifai, LAYER 6 AI, bonsai

DATA CAPTURE
CrowdFlower, diffbot, CrowdAI, import io, Paxata, DATASIFT, amazon mechanical turk, enigma, WorkFusion, DATALOGUE, TRIFACTA, parsehub

OPEN SOURCE LIBRARIES
Keras, Chainer, CNTK, TensorFlow, Caffe, H2O, DEEPLEARNING4J, theano, torch, DSSTNE, Scikit-learn, AzureML, neon, MXNet, DMTK, Spark, PaddlePaddle, WEKA
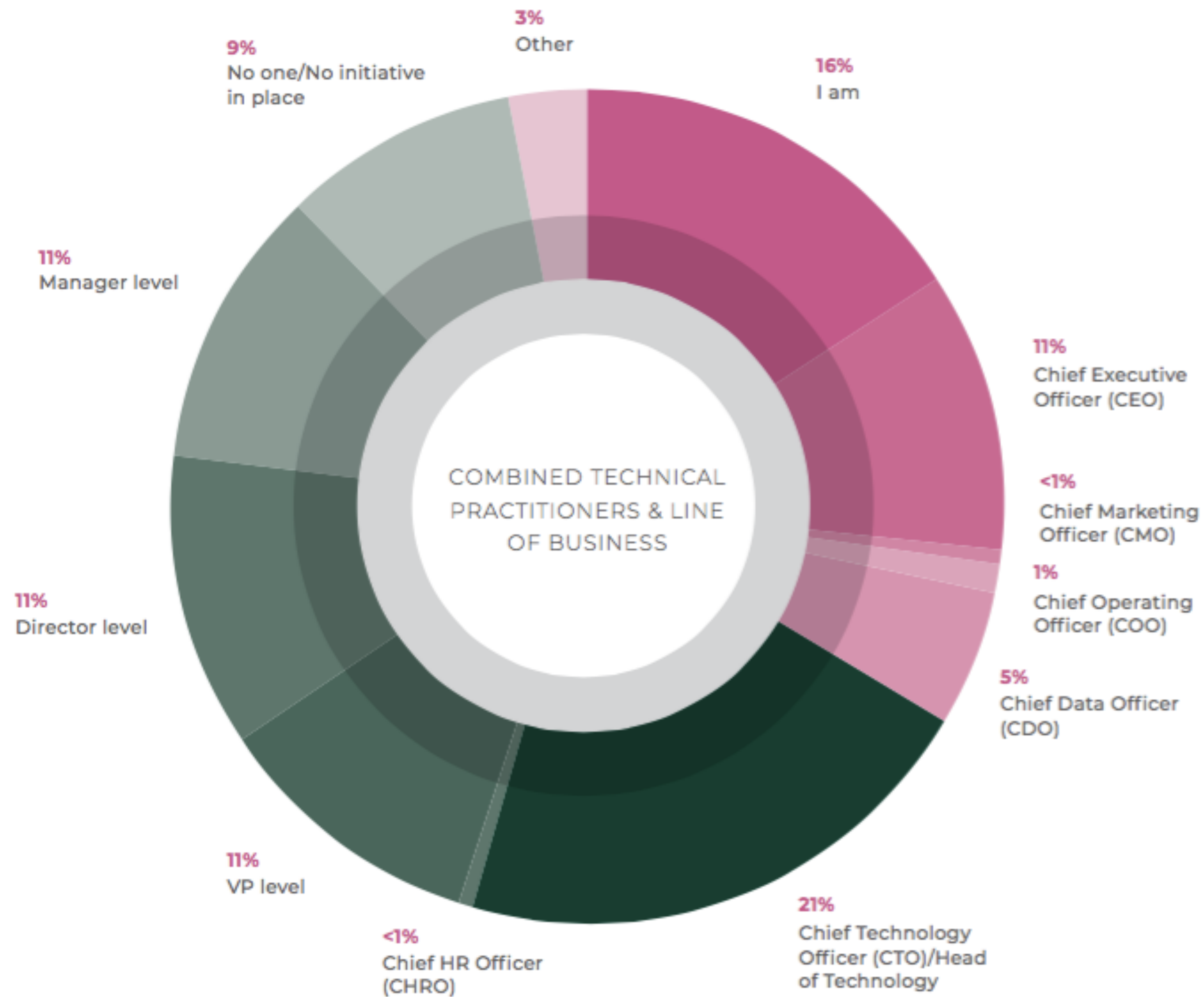
HARDWARE
KNUPATH, TENSTORRENT, Cirrascale, NVIDIA, intel nervana, Movidius, tensilica, GoogleTPU, 10^16 Labs, Qualcomm, Cerebras, Isosemi

RESEARCH
OpenAI, nnaisense, ELEMENT AI, vicarious, KNOGGIN, Numenta, Kimera Systems, Cogital

2

Who Builds AI Products in a company?

Who is ultimately responsible for all AI initiatives within your organization?

3%
Other

9%
No one/No initiative in place

11%
Manager level

11%
Director level

11%
VP level

<1%
Chief HR Officer (CHRO)

21%
Chief Technology Officer (CTO)/Head of Technology

5%
Chief Data Officer (CDO)

1%
Chief Operating Officer (COO)

<1%
Chief Marketing Officer (CMO)

11%
Chief Executive Officer (CEO)

16%
I am

COMBINED TECHNICAL PRACTITIONERS & LINE OF BUSINESS

(Figure 12: AI responsibility within the organization)

If data is the enabler of your business growth, you should focus on the lifecycle of the data downstream, as it flows into other areas of your business, and determine the data strategy that aligns with your business strategy of AI

3 What is Artificial Intelligence (AI) made up of ?

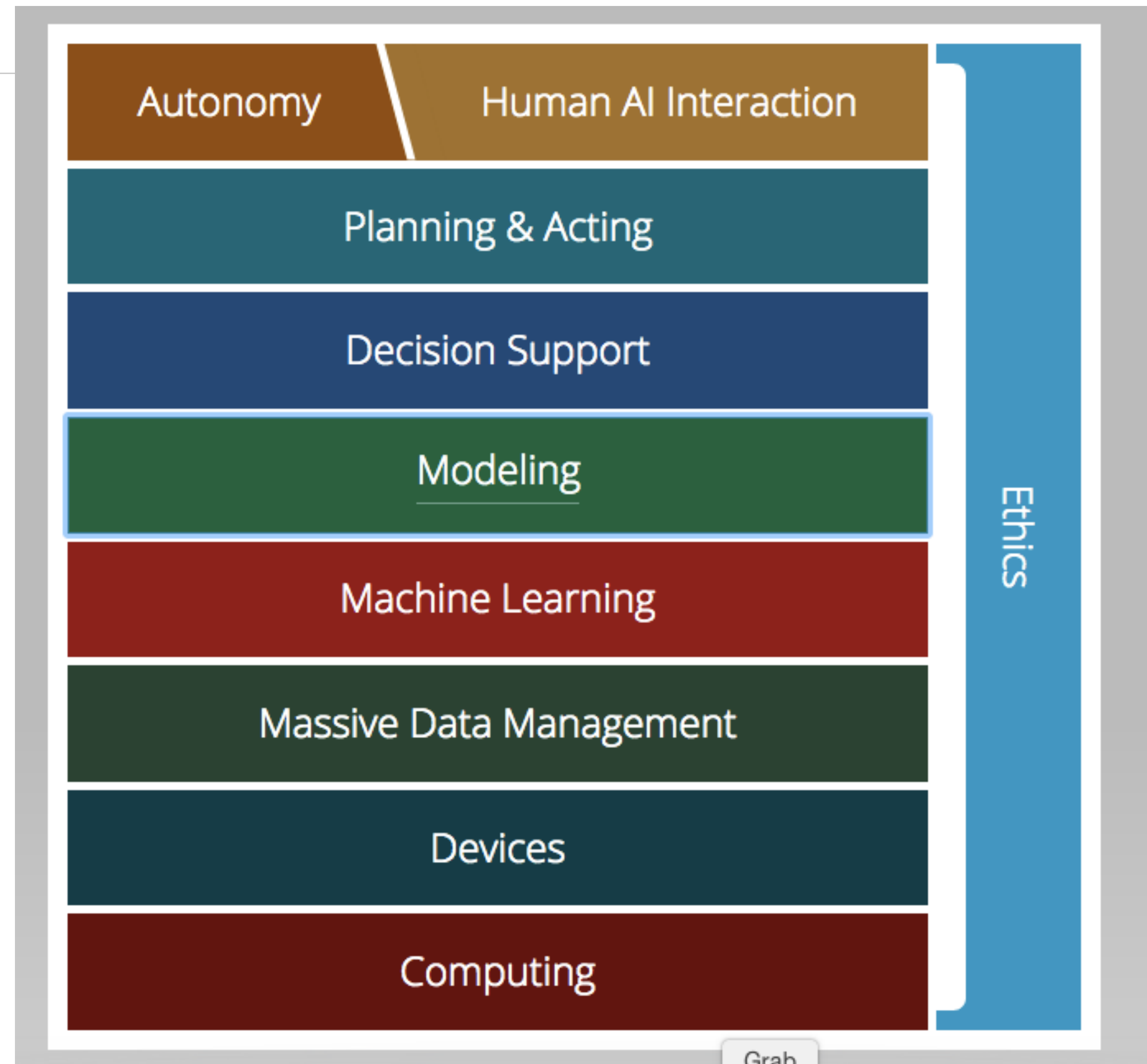1. **Algorithm**
2. **Data**
3. **Models**

When do algorithms fail?

4

How do you build AI Products in a company?

AI Stack

Source: https://ai.cs.cmu.edu/about

AI LIFECYCLE MANAGEMENT

1 GOVERNANCE
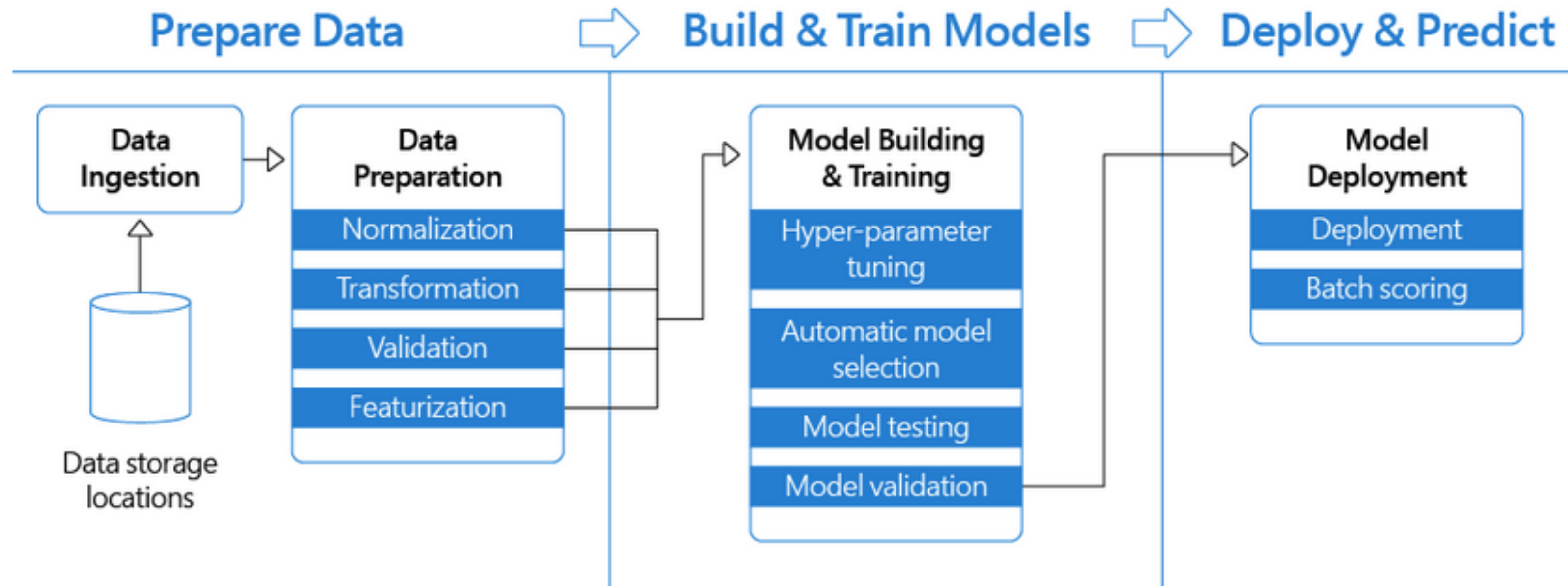
2 COLLABORATION

3 EXPLANABILIY

4 VERSIONING

What is MLOps?

source: Microsoft; Other vendors - Tavant, Google and more

Hottest area
of AI jobs?

DataScience, Design, Product Management, AIX Design, Ecosystem Building, Business Development, Market Development, AI Ethics, Simulation & Testing, Digital Transformation …
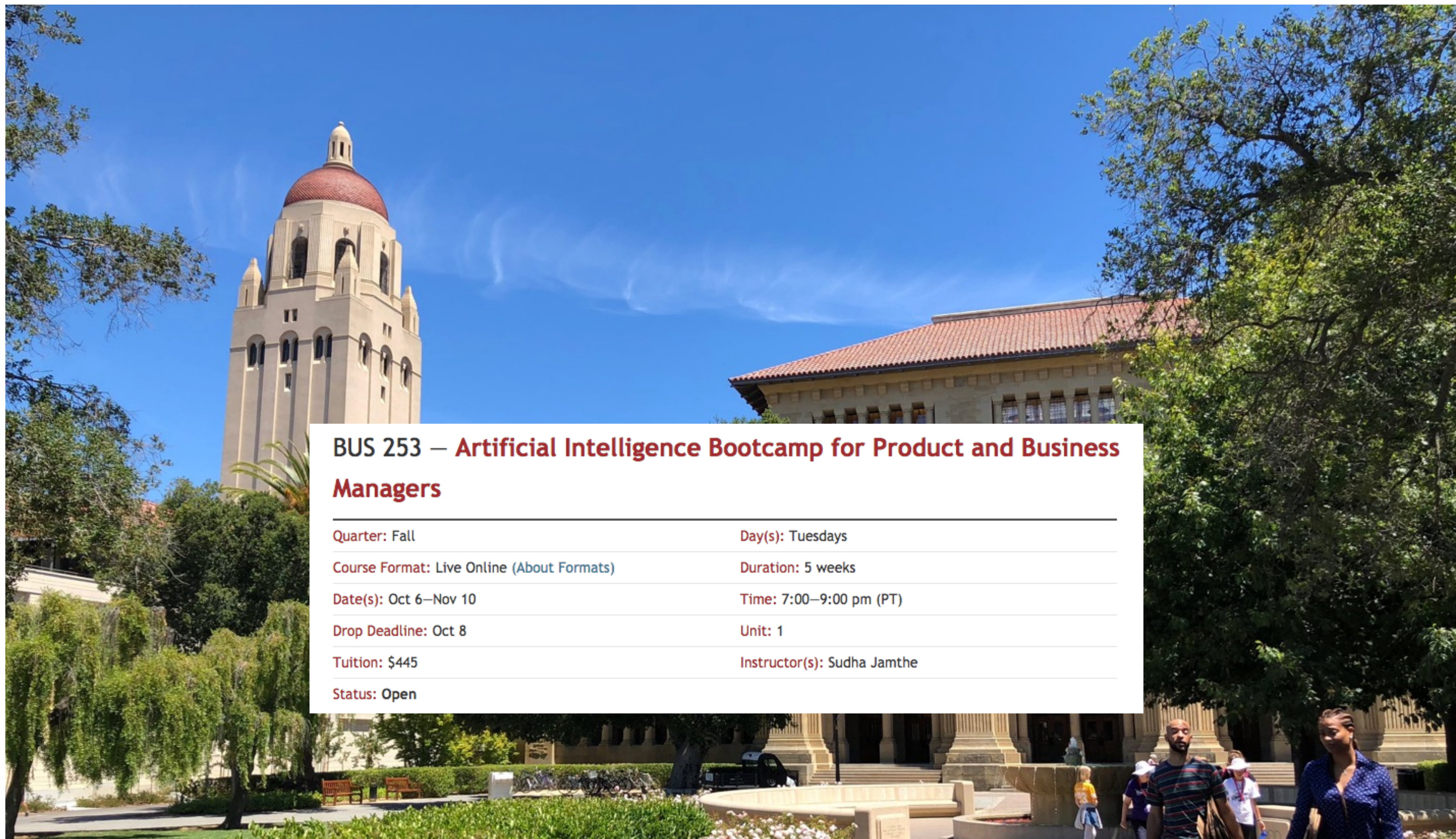
Is this you?

How to Pivot?

"" Begin by learning how AI works - pick a tech or industry

BUS 253 — **Artificial Intelligence Bootcamp for Product and Business Managers**

Quarter: Fall	**Day(s):** Tuesdays
Course Format: Live Online (About Formats)	**Duration: 5 weeks**
Date(s): Oct 6—Nov 10	**Time:** 7:00—9:00 pm (PT)
Drop Deadline: Oct 8	**Unit: 1**
Tuition: $445	**Instructor(s):** Sudha Jamthe
Status: Open	