Yogesh Haribhau Kulkarni

Principal Architect (CTO Office, Icertis) | PhD in Geometric Modeling | Google Developer Expert (Machine Learning) | Rasa Hero (Conversational AI) | Neo4j Ninja (Graph Data Science) | Mentor (Mid-career Transition)

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Yogesh Haribhau Kulkarni • You   •••
Principal Architect (CTO Office, Icertis) | PhD in Geometric Modeling | Google Devel...
1mo • Edited • 🌐

The Great Admission

As my daughter is going through the engineering admissions process, we are able to see some trends in the branch-college preferences via cut-off marks, vacant seats, etc. There is a visible rush, not only towards the usual choices like, Computer Science/Engineering (CS) and Information Technology (IT), but also towards the new-age branches like Artificial Intelligence (AI), Machine Learning (ML) and Data Science (DS). Looking at this market demand, basically, riding on the wave, many colleges have opened AI-ML-DS branches now, which traditionally used to be just subjects under CS/IT. For a larger catchment, some have spread the net wider with multiple branches around the same core theme of AI-ML-DS.

See some of the combination of words used, in general:
- "Artificial Intelligence"
- "Artificial Intelligence and Machine Learning"
- "Artificial Intelligence and Data Science"
- "Computer Science and Engineering (Artificial Intelligence)"
- "Computer Science and Engineering(Artificial Intelligence and Machine Learning)"

Myself, being from the same AI-ML domain, on one hand, am feeling good about the wider acceptance of these subjects in the society, but on the other hand, wish to be a bit cautious about this (gold?) rush.

Before choosing any one of these new-age branches, or for that matter, any branch, would like to suggest the students to consider answering following questions, yourself, that too, with data:
- Is this branch going to sustain its momentum in the future? (easy check: find technology trends, e.g. Gartner Hype Cycles).
- Is this branch having enough jobs, even now, to extrapolate the trend? (easy check: search on job portals, with preferred keywords and location/remote)

websites)
- Are there enough qualified faculties in these colleges to build requisite expertise in you? (easy check: visit Faculty pages of these departments and check numbers as well as credentials)

Intent of the post is to kindle spark of informed decision making, than just flocking. In my opinion, AI-ML-DS are tools/techniques of problem solving, to be used/applied on a particular domain, such as finance, sales, legal, mechanical, medical, automotive, etc. Having domain knowledge helps more while applying these new-age techniques.

Feel free to comment your agreement/disagreement on the thoughts, above.

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Pratyush Lohumi • 1st   3w •••
|| ML Researcher || AI Proponent || Deep Learning || Monotype

What were your answers to the questions?

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Vikas Chougule, PhD • 1st   2w •••
Professor HMED | Mechanical Engineer | BioCAD Modeling, 3D Printing |
Digital Manufacturing | DICOM, STL | Solidworks, Fusion360

Yogesh Kulkarni Congratulations and all best wishes to your daughter...
Last year was in same situation and took similar decision, chose
Mechanical in IIT over Computer in tier 1 College in pune

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Neha Shaah • 1st   4w •••
Sr. Data Scientist | Electronics Product Engineer | Control System Engineer |
Board Advisor

Can't agree more with your advice.
I would like to add my two cents to the questions listed above. These may not
be applicable in your case as you are available as a mentor to your daughter,
but for others who don't have a mentor from same field.m.
- Check with your seniors / elder cousins / relatives - someone wh ...see more

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Yogesh Haribhau Kulkarni   Author   4w •••
Principal Architect (CTO Office, Icertis) | PhD in Geometric Modeling |
Google Developer Expert (Machine Learning) | Rasa Hero (Conversational
AI) | Neo4j Ninja (Graph Data Science) | Mentor (Mid-career Transition)

I have kept my Saturday afternoons open for anyone to discuss topics
related to AI ML and also career in them. Open and free to all.

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Rathin Deolankar (He/Him) • 1st   4w (edited) •••
Neilsoft | CAD | Math/Geometry | C/C++ | STL

which are again tools, techniques that can be used in a variety of t
AI/ML/DS itself is dependent on Mathematics & Programming. IM...   ...see more

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Niranjan Singh • 1st   3w (edited) •••
Software Engineer at Samsung

Yogesh Kulkarni AI/ML is a smart way of doing mathematics that can
be done by our modern computing machine. I do not find intelligence
anywhere..Intelligence is not created in days, finding pattern and
generalising it does not defines intelligence.
Machines are very far off let say light year far from being int ...see more

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Prathamesh Ghatole • 1st   3w •••
GSoC '22 @ Metabrainz 🌞🎵 | Data Science @ IITM 👁️🧠 | Pianist/Music
Producer 🎧🎹 | Learning Japanese 🎌🐍

As an undergrad pursuing his BTech in AI, I definitely agree with all the points
you discussed.

In my experience so far, all these branches (AI, ML, DS, etc) severely lack good
teaching faculties (especially in tier3 colleges). Getting jobs in thes ...see more

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Sarvesh Gharat • 2nd   3w •••
PhD Scholar at CMINDS, IIT Bombay

Infact ECE is more helpful for AI compared to CSE due to the wide
range of Mathematical courses available in ECE. This applies to the
majority of t3 instis because at other places like IITs students are
allowed to choose those electives irrespective of their department as
opposed to t3 instis

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Anand Deshpande • 1st   4w •••
Co-Founder and Director at Atgeir Solutions

Hi Yogesh Kulkarni, as I am going through the same process for my
daughter, I am able to relate to your post entirely. In addition to all those
branches (with 'AI' / 'ML' / 'DS' as catchy keywords in their names), some
colleges have started offering B.E. Civil Engineering et all (with honors in
Artificial Intelligence 😃). While we understand the gimmicks beh ...see more

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Narendra Deore • 1st   3w •••
Associate Dean (Industry Institute Interaction) at Pimpri Chinchwad Education
Trust'S. Pimpri Chinchwad College of Engineering

quite different. Let's focus on interest/skills and try to pursue it.
Best wishes to you and daughter. 👍

Like · 👍 4 | **Reply**

Srinivas Chillara · 1st   4w (edited) •••
Managing Partner at SwanSpeed Consulting

I will be a close stakeholder in such a process soon. I hope to firmly steer the
young away from such fashinable options . I think (as mentioned by **Yogesh
Kulkarni**) a wide domain/branch should be choosen more or less freely by the
child in question: say material science or electronics or even industrial
engineering. Then given the high energy of the young, choose a p ...see more

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Santosh Kulkarni · 1st   4w •••
Senior Director, Data, Analytics, AI/ML | Product Development Leader | Built
Products/Teams from scratch

"AI-ML-DS are tools/techniques of problem solving" is a bold statement and
completely agree with it..!!

I mentioned exactly same thing to my son when we went through the
admission rigour couple years back.

Like · 👍 6 | **Reply**

NIRANJAN BOKIL · 1st   4w •••
Head Operations

Yogesh, you have brought up a very important point. Mainly the college Lab
infrastructure and faculty play a critical role- masters /PhD holders with a
great industry network in these niche areas can keep students engaged- I
think It would take a decade atleast.
Fully agree- expertise on concepts and domain knowledge is right ...see more

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Rajeev Gangal · 1st   4w •••
Vice President of Analytics at VOIS (Vodafone Intelligent Solutions)

Usual conundrum. I have forever felt learn core domain at graduation and
applied new age ones like ML or even Business administration only later. ML
AI is a force multiplier not the force itself 😁

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Yogesh Haribhau, **aramco** is hiring!

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