Your team is working on an NLP model and has just operationalized the first model. Your team makes updates to the model, overwrites the original model, and puts this new model into operation. However, one of the teams using the model has seen a decrease in performance and is asking to use the original model.

What critical error did your team make?

A. They did not have data governance in place

B. They did not practice model versioning and keep all versions of the model

C. They did not have a model retraining pipeline that took into account models

D. They did not practice model iteration and properly iterate on the model

Suggested Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

Enhancing and cleaning data is an important action during which phase of CPMAI?

    A. Phase VI

    B. Phase I

    C. Phase V

    D. Phase III

    E. Phase II

    F. Phase IV

Suggested Answer: *D*

Community vote distribution

D (75%) | C (25%)

☐ 👤 **16ace1d** 4 days, 1 hour ago

Selected Answer: D

phase 3 - Data Cleaning: Removing duplicates, handling missing values, correcting errors, and standardizing formats.

upvoted 1 times

☐ 👤 **fbarnaba72** 1 week ago

Selected Answer: D

In the CPMAI™ (Cognitive Project Management for AI) framework, enhancing and cleaning data typically occurs during Phase 3: Data Preparation and Exploration. This phase is crucial for ensuring that the data used in AI and machine learning projects is accurate, relevant, and ready for modeling.

Here's what usually happens in this phase:

Data Cleaning: Removing duplicates, handling missing values, correcting errors, and standardizing formats.

Data Enhancement: Enriching datasets with additional sources, performing feature engineering, and transforming variables to improve model performance.

Exploratory Data Analysis (EDA): Visualizing and summarizing data to uncover patterns, trends, and anomalies.

Data Validation: Ensuring the data aligns with business goals and project requirements.

💬 This phase sets the foundation for successful model development and is often considered one of the most time-consuming yet impactful stages in AI project management.

upvoted 1 times

☐ 👤 **raingoleo** 2 weeks, 4 days ago

Selected Answer: D

Phase III is Data Preparation. Suppose Data cleaning is here. Phase 1 is Business requirement only

upvoted 1 times

☐ 👤 **raingoleo** 2 weeks, 4 days ago

Selected Answer: C

Phase III is Data Preparation. Suppose Data cleaning is here. Phase 1 is Business requirement only

upvoted 1 times

Your team is ready to operationalize the model they have been working on. It's a model that is meant to be used on an "edge device", specifically a mobile phone and the user may sometimes be in remote locations without regular access to the internet.

What's the most important thing to consider here?

    A. Make sure that you can use Generative AI solutions on an edge device

    B. Make sure the model lives in a hybrid environment

    C. Make sure the model is available over a cloud-based API

    D. Make sure the model lives on the edge device so it can be used regardless of internet connection

Suggested Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

For AI projects the code and systems don't matter as much as the data. In fact, big data is what's powering much of this latest wave of AI. What's most important for your company to consider around data?

    A. Because of almost-infinite storage and compute power, collect as much data as possible and deal with organizing it later.

    B. Collect enormous amounts of data - the more data the better.

    C. Understanding which algorithms are best for your data needs.

    D. Have team members that have experience, understanding of tools, and the ability to deal with massive volumes of data.

Suggested Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

Using machine learning and other cognitive approaches to understand how to take past / existing behavior and predict future outcomes or help humans make decisions about future outcomes using insight learned from past behavior / interactions / data is a core part to which pattern(s) of AI?

- A. Goal Driven Systems

- B. Predictive Analytics & Decision Support and Patterns and Anomalies

- C. Recognition Pattern

- D. Predictive Analytics & Decision Support

Suggested Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

As an organization building an AI solution for your current customers based in NYC, but with possible plans for future expansion, how should you handle worldwide AI laws and regulations?

A. Make sure to follow relevant data, privacy, and other important laws both in the US and where you're like to expand to in the coming year

B. Make sure to follow relevant data, privacy, and other important laws as it pertains to NYC

C. Make sure to follow relevant data, privacy, and other important laws as it pertains to the United States

D. You're too small of an organization to be worried about laws at the moment

Suggested Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

Your team is starting a new facial recognition project and you want to ensure that the project is being done with Trustworthy AI in mind.

At what phase of CPMAI would Trustworthy AI be considered?

A. Phase I

B. Phase II

C. Phase III

D. Phase IV

E. Phase V

F. Phase VI

G. All phases

H. None of the phases

Suggested Answer: *G*

Currently there are no comments in this discussion, be the first to comment!

Your team is starting a new facial recognition project and you want to ensure that the project is being done with Trustworthy AI in mind.
At what phase of CPMAI would Trustworthy AI be considered?

You recently completed an image recognition project at your company that was focused on identifying different types of cars. You have now been assigned a new image recognition project that is focused on identifying different types of animals. You know you can shortcut model development by using a specific technique.
What is this technique called?

A. Reinforcement Learning

B. Generative AI

C. Transfer Learning

D. Pre-Trained Models

Suggested Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

You're working with an inexperienced team and this is all their first AI project. You're trying to work on a supervised learning binary classification problem to determine if emails are spam or not.

What is the best approach for this project?

A. Pick a simple algorithm such a naive bayes

B. Pick a neural network algorithm since you know this works well for supervised learning approaches

C. Pick an ensemble method since you're not sure which algorithm will perform best

D. Pick a simple algorithm such as Gaussian mixture

Suggested Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

Your team is working on an AI system to provide a more personalized experience for customers on your website. What should the team do in regard to determining the pattern of AI with regards to the ROI of the project?

A. First identify the AI pattern you want to use and then figure out the ROI

B. First determine the pattern of AI you want to use and then work with stakeholders to come up with ROI

C. First identify the objective you're trying to solve or the ROI you desire and then use that to figure out that correct pattern

D. First talk to senior managers who set the ROI of the project

Suggested Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

Clean, well-labeled, datasets used for machine learning are partitioned into three subsets: Training sets, Validation sets, and Test sets. As your team is doing this, what's the best way to split up this data?

A. Split by alphabetical order

B. Split by patterned subsampling

C. Split by random subsampling

D. Use the same data for all sets

Suggested Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

You need to hire a data scientist to join your team. What skill sets should you be looking for when hiring and interviewing this person? (Choose all that apply.)

> A. Prompt engineering skills
>
> B. Understanding of tools and technologies for manipulating, collecting, and preparing large data sets
>
> C. Critical thinking skills
>
> D. Understanding of algorithms
>
> E. Automation skills, especially around creating RPA bots
>
> F. Strong math skills, especially in calculus and statistics

Suggested Answer: *ABCDF*

Currently there are no comments in this discussion, be the first to comment!

Creating machine learning models can be complicated. Your team wants to use tools called Automated Machine Learning (AutoML) to simplify the process. You know of another team that has used AutoML tools and it's saved the team a lot of time.
However, what's the one area you should not have the AutoML tool help with?

- A. Automatic model assessment

- B. Iterative modeling and evaluation

- C. Automatic hyperparameter tuning

- D. Automatic model selection

- E. Automatic algorithm selection

Suggested Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

One of the key elements of a data-centric methodology is the data requirements phase. During CPMAI Phase II, several unexpected issues have developed and are now threatening the data collection efforts.
What course of action might make the issue worse?

A. See if you can expand the scope to continue with the project

B. See if you already have access to enough data to continue with the project

C. See if you can adjust the scope of this interaction to continue with the project

D. See if you can purchase the data needed to continue with the project

Suggested Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

You're testing your model and it is overly sensitive to the fluctuations of data and having trouble generalizing. What type of problem is this?

A. You are underfitting the data

B. You are overfitting the data

C. You have selected the wrong algorithm

D. You have selected the wrong data

Suggested Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

Major factors for the project you are currently working on is around the training time, cost, and complexity of training your models. Which algorithm is not the best choice given these constraints?

    A. Support Vector Machines (SVM)

    B. Neural Networks

    C. Naive Bayes

    D. Gaussian Mixture

Suggested Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

Your team is testing the NLP model they just created to make sure it's performing as expected. Some of your team members want to move this model to production and move to the next iteration.

What's wrong with this workflow?

A. You need to make sure the AI Go/No Go questions have been addressed

B. Nothing is wrong with this workflow. You can move to the next iteration

C. Team members should not be able to move to new projects until senior management signs off

D. Model Evaluation requires continuous model evaluation, retraining, and operationalization

Suggested Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

Your team is looking to develop an RPA bot to help with back-office processes such as data entry. What type of bot should your team be creating?

A. Unattended bot

B. Business Process Outsourcing

C. Attended bot

D. RPA is not the right solution to this problem

Suggested Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

The growth of Big Data has led to a desire to be able to do more to process and extract more value from Big Data. Simply storing data and providing analytics is no longer enough anymore to remain competitive.

To keep your organization competitive, you need to:

A. Make sure the technical team has deep understanding of big data and how best to extract value from big data to unleash it for competitive advantage.

B. Make sure senior management has deep understanding of big data and how best to extract value from big data to unleash it for competitive advantage.

C. Make sure all senior leadership is data literate, understands the Vs of big data, data's connections to your specific team, and how to extract value from big data to unleash it for competitive advantage.

D. Make sure everyone on the team has an understanding of data, its connections to the organization, and how to extract value from big data to unleash it for competitive advantage.

Suggested Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

During CPMAI Phase II it's important to not only understand the sources of your data, but also what data is required for training as well as identifying the features that are required.

When looking to gather data, what approach is best when determining how much data you need?

A. The "goldilocks" approach

B. The "less is better" approach

C. The "more is better" approach

D. There is no correct approach

Suggested Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

Your team is looking for a short term ROI project and decides that an AI enabled chatbot will be the project to start with. During Phase I of CPMAI you go through the AI Go/No Go decision chart and realize that you have not answered yes to all the business feasibility questions. You and the team have not determined a clear problem definition.

What's the best course of action with how to proceed?

A. Do not move forward and cancel the project all together.

B. Cautiously move forward as planned. You do not need to answer yes to all the questions in the AI Go/No Go decision chart to start your project.

C. Do not move forward until you can determine a clear problem definition.

D. Move forward with the project as planned. The problem definition will become clear later on in the project.

Suggested Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

Your model is going to be used for continuous monitoring of machinery, with need for continuous, instant model predictions. What's the most appropriate Model Operationalization approach?

A. Real-time prediction

B. Web service / Microservice

C. Batch prediction

D. Stream learning

Suggested Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

In what way would you be using Generative AI if you used the results of the Generative AI solution to improve and accelerate your job?

A. Used for Hyperpersonalization

B. As an autonomous system removing the human from the loop

C. As an Augmented Intelligence system

D. As a programmatic approach for automation

Suggested Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

Your team is working on a new facial recognition application. Since this technology has the potential to be mis-used you think it's important to set guidelines for the proper use of this application and you want to make sure the AI system is built for some positive purpose.
What area of Trustworthy AI does this best fall under?

    A. Transparent AI

    B. Governed AI

    C. Responsible AI

    D. Explainable AI

Suggested Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

Recently your company has been getting a large number of spam emails and some employees have been clicking on these suspicious emails causing a headache for IT. The head of IT wants to create a more robust spam filter and your team has been tasked with this project.
What type of algorithm would you select for this problem?

- A. Clustering
- B. Regression
- C. Binary (or Binomial) Classification
- D. Multiclass Classification

Suggested Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

When building your model, you need to make sure you're not only checking for performance and making sure the model is giving the expected results. You also need to make sure the model is accomplishing the business objective.

At what phase of CPMAI is this most appropriate to do this?

    A. Phase IV

    B. Phase I

    C. Phase II

    D. Phase VI

    E. Phase III

    F. Phase V

Suggested Answer: *F*

Currently there are no comments in this discussion, be the first to comment!

Your team is working on an image recognition system to help identify plants. They have collected a large amount of data but need to get this data labeled.

Which phase of CPMAI is this done?

    A. Phase I

    B. Phase II

    C. Phase III

    D. Phase IV

    E. Phase V

    F. Phase VI

Suggested Answer: *B*

Community vote distribution

C (100%)

👤 **16ace1d** 4 days ago

Selected Answer: C

data labelling, cleansing, formatting and deduplication happens in Phase III Data Preparation.

  upvoted 1 times

👤 **raingoleo** 2 weeks, 3 days ago

Selected Answer: C

The questions is asking the data is "labeled". it should be in Phase III Data Preparation.

  upvoted 1 times

You're looking to take an image and have a Generative AI solution generate additional content beyond the bounds of the current image size. What Generative AI approach can you use?

A. Prompt engineering for new image generation

B. Use of inpainting to replace image components

C. Use of super-resolution to enhance the existing image

D. Use of Generative Outpainting

Suggested Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

You want to make sure that in your HR hiring system that applicants have the ability to contest the result. In what layer of the Trustworthy AI framework do we address this need?

- A. Responsible AI
- B. Ethical AI
- C. Transparent AI
- D. Explainable AI
- E. Governed AI

Suggested Answer: *C*

Community vote distribution

D (100%)

👤 **16ace1d** 4 days ago

Selected Answer: D

contesting the results goes to Explainable AI

upvoted 1 times

Your company is insisting on running an automation project and applying AI best practices and methodologies to the project. You understand that automating things is just the act of using machines to repeat tasks, and does not require AI to achieve results. You think it is overkill but the project moves forward as planned.
What would likely have helped avoid this conflict?

    A. Nothing - running automation projects like autonomous projects is the correct thing to do.

    B. Everyone on the team should understand the differences between automation and autonomous systems.

    C. Senior management should become involved in the project.

    D. Applying a hybrid approach of automation and AI best practices would have achieved better results.

Suggested Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

You're being told by upper management that you need to manage a new AI project. You need to determine the AI project fit to make sure you're actually solving a real business problem.

During phase I: Business Understanding, you should consider at least one of the following (Choose all that apply):

- A. Explores a proof of concept for an AI project

- B. Enhance revenue

- C. Solves a previously unsolved problem

- D. Improve company competitiveness in the market

- E. Has the "cool" factor

- F. Solves an already solved problem but does it better and cheaper

Suggested Answer: *BCDF*

Currently there are no comments in this discussion, be the first to comment!

You're working on a computer vision application and realize that you do not have enough real world data for the project. You need additional data created to support your training needs. Specifically, the images you need are of people in different poses. What is the best way to obtain this data?

- A. Make use of this data by having employees pose in the positions required
- B. Make use of data from different departments
- C. Make use of this data from surveillance footage
- D. Make use of Synthetic Training Data

Suggested Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

You have been brought on to manage a recognition project, specifically an image recognition project, for an Autonomous Retail application. You know that you need to make sure you have sufficient data for this project.

What's the best way to approach this?

   A. Take all the data your company has as well as purchase additional external data

   B. Take inventory of all data your company has and use the relevant data

   C. Take all the existing data you have and apply it to this project

   D. Take inventory of all data your team has and use the relevant data

Suggested Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

You have been brought on to manage a recognition project, specifically an image recognition project, for an Autonomous Retail application. You know that you need to make sure you have sufficient data for this project.

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   B. Take inventory of all data your company has and use the relevant data

   C. Take all the existing data you have and apply it to this project

   D. Take inventory of all data your team has and use the relevant data

You're creating an AI enabled chatbot that is going to access user data. What areas related to data governance do you need to make sure you're addressing? (Choose all that apply.)

    A. Data Sharing challenges

    B. Privacy Risks

    C. Data Quantity Issues

    D. Change Management Issues

    E. Security Risks

    F. Data Quality Issues

    G. Business Risks

Suggested Answer: *ABEFG*

Currently there are no comments in this discussion, be the first to comment!

Use cognitive technologies/AI when you can't code the rules or you can't scale easily with people or automation. As a good rule of thumb when deciding if AI is right for the project you should:

- A. Decide if it's a statistics pattern. If it's statistical then go with the AI project.
- B. Decide if it's probabilistic or deterministic patterns. If it's deterministic then go with the AI project.
- C. See if simple rules work. If yes, then pick the right AI solution to solve the problem.
- D. Decide if it's probabilistic or deterministic patterns. If it's probabilistic then go with the AI project.

Suggested Answer: *D*

Currently there are no comments in this discussion, be the first to comment!

Use cognitive technologies/AI when you can't code the rules or you can't scale easily with people or automation. As a good rule of thumb when deciding if AI is right for the project you should:

- A. Decide if it's a statistics pattern. If it's statistical then go with the AI project.
- B. Decide if it's probabilistic or deterministic patterns. If it's deterministic then go with the AI project.
- C. See if simple rules work. If yes, then pick the right AI solution to solve the problem.
- D. Decide if it's probabilistic or deterministic patterns. If it's probabilistic then go with the AI project.

Your team is tasked with selecting an algorithm for a supervised learning classification project. Which algorithm might you choose?

A. Gaussian mixture

B. Q learning

C. K-nearest neighbor

D. K-means

Suggested Answer: *C*

Currently there are no comments in this discussion, be the first to comment!

When looking to implement AI to help break the Digital Transformation logjam, it's important to:

A. Have the right culture for AI

B. Invest in technology solutions to solve the problem

C. Figure out which pattern(s) of AI are needed to incorporate intelligent systems into non digital processes

D. Start with basic automation and introduce AI only as needed

Suggested Answer: *A*

Currently there are no comments in this discussion, be the first to comment!

When looking to implement AI to help break the Digital Transformation logjam, it's important to:

A. Have the right culture for AI

B. Invest in technology solutions to solve the problem

C. Figure out which pattern(s) of AI are needed to incorporate intelligent systems into non digital processes

D. Start with basic automation and introduce AI only as needed

You just joined a new company and they want to start their first AI project. Senior management thinks the best approach is to just buy AI from a vendor. You know that AI is something you do, not something you buy.

What is your next best course of action to address this?

- A. Say nothing and let the team figure it out for themselves
- B. Share prior experiences with how your last team addressed this problem and how you solved it
- C. Help senior management do research on AI vendors
- D. Share prior experiences with how your last team addressed this problem and their data quality issues

Suggested Answer: *B*

Currently there are no comments in this discussion, be the first to comment!

Your team is planning an AI enabled chatbot project to help reduce call center load. They are currently determining if the project can get off the ground and working through the AI Go/No Go feasibility questions.
What stage of CPMAI is the team currently working on?

    A. Phase I

    B. Phase II

    C. Phase III

    D. Phase IV

    E. Phase V

    F. Phase VI

Suggested Answer: *A*

Currently there are no comments in this discussion, be the first to comment!