

AGENTIC AI - QUIZ 01

24 responses

Name

24 responses

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SMIT ID NO

24 responses

501214

AI-333564

AGI-479030

478797

AI-335666

334301

AI-3344444

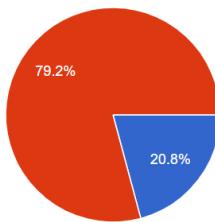
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Education Level

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- Intermediate
- UnderGraduation
- Masters

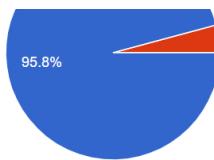
Do you have the basic knowledge of AI?

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- Yes
- No

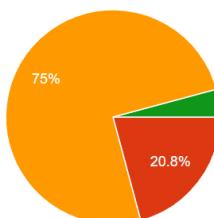


Section 1: Python Fundamentals & OOP

What is the difference between a list and a tuple in Python?

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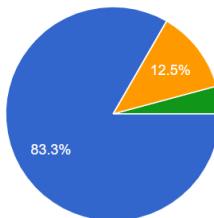


- c) Both are mutable
- b) Lists are immutable, tuples are mutable
- a) Lists are mutable, tuples are immutable
- d) Both are immutable

Which of the following is a valid variable name in Python?

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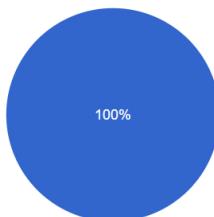


- b) name_123
- a) 123name
- d) class
- c) @name

What is the output of type(3.0) in Python?

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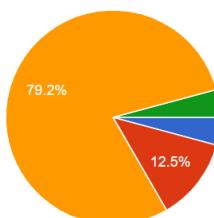


- b) float
- a) int
- d) str
- c) double

Which Python collection is **unordered** and does not allow **duplicates**?

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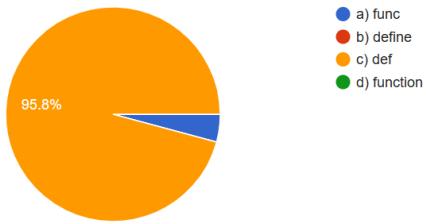


- a) List
- b) Tuple
- c) Set
- d) Dictionary

Which keyword is used to define a function in Python?

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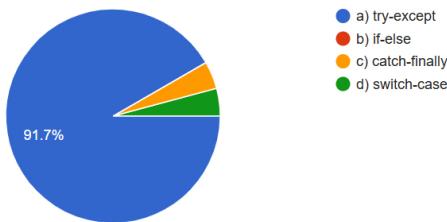
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Which of the following is used to handle exceptions in Python?

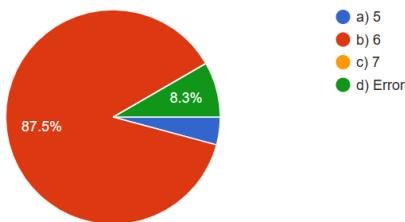
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What does len("Python") return?

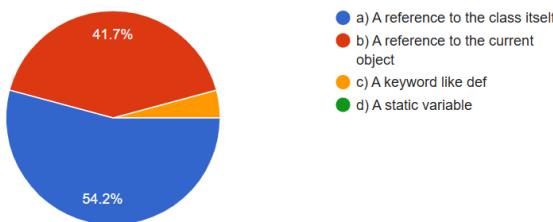
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What is **self** in Python class methods?

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What is the output of:

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```
x = [1, 2, 3]
```

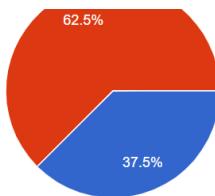
```
y = x
```

```
y.append(4)
```

```
print(x)
```

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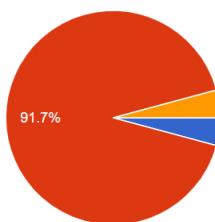


- b) [1, 2, 3, 4]
- c) Error
- d) None

Which of the following is **NOT** a valid Python data structure?

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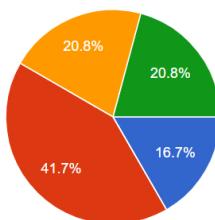
- a) List
- b) Stack
- c) Tuple
- d) Set

What will this code print?

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```
print(bool("False"))
```

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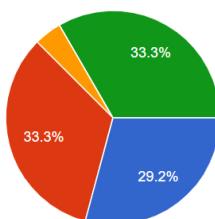


- a) False
- b) True
- c) "False"
- d) Error

Which of the following is **TRUE** about Python functions?

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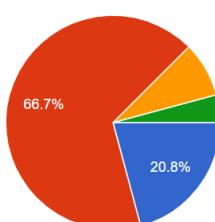
- a) Functions cannot return multiple values
- b) Functions can return multiple values as a tuple
- c) Functions cannot be assigned to variables
- d) Functions must always return something

What will be the output?

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```
a = (1, 2, 3)  
a[0] = 5
```

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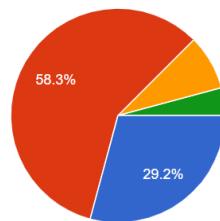


- a) (5, 2, 3)
- b) Error: Tuples are immutable
- c) [5, 2, 3]
- d) None

What happens when you use is == in Python?

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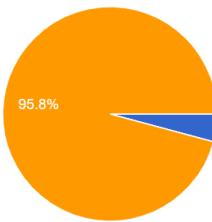


- a) Both check values
- b) is checks identity, == checks values
- c) Both check memory address
- d) == checks identity, is checks values

Which OOP concept allows one class to derive properties from another?

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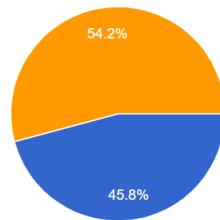
- a) Polymorphism
- b) Encapsulation
- c) Inheritance
- d) Abstraction

Section 2: FastAPI, Data Structures & Data Handling

FastAPI is built on top of:

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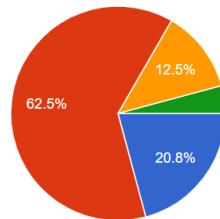


- a) Flask
- b) Django
- c) Pydantic
- d) Tornado

By default, FastAPI runs on which protocol?

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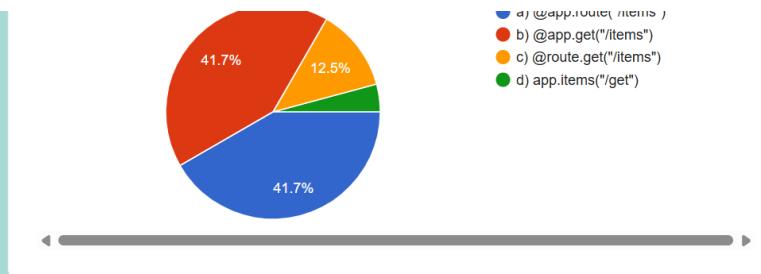


- a) WSGI
- b) ASGI
- c) CGI
- d) RPC

What is the correct way to define a route in FastAPI?

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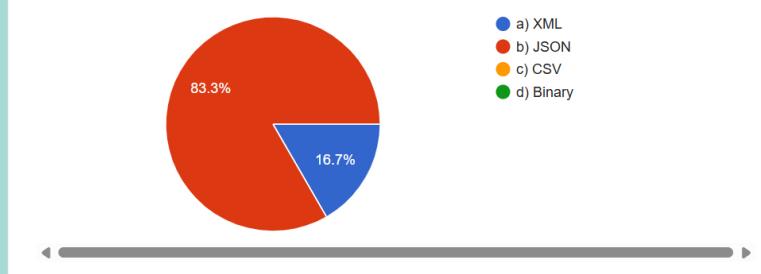
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Which data format does FastAPI use by default for request/response?

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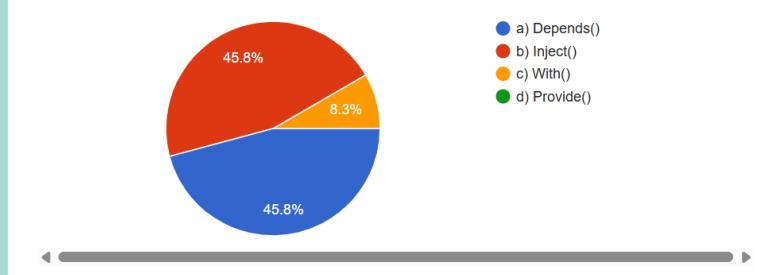
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Which of the following supports **dependency injection** in FastAPI?

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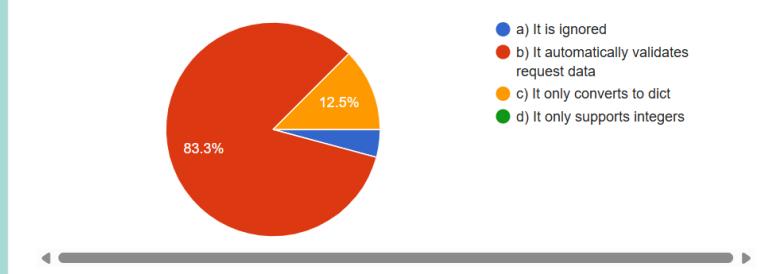
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What happens if you define a Pydantic model in FastAPI?

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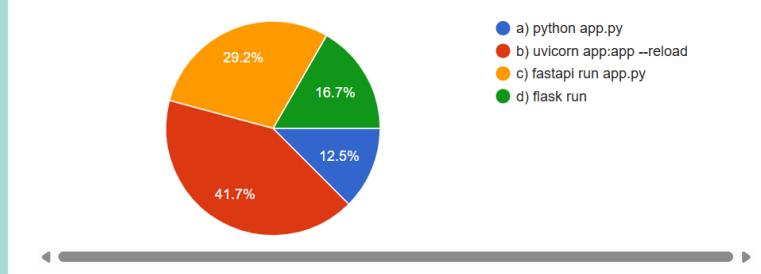
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How do you run a FastAPI app?

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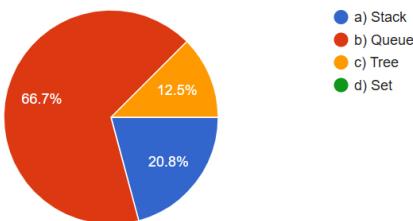
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Which data structure is **FIFO**?

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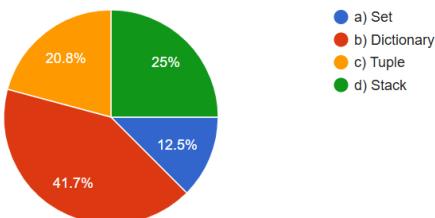
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Which Python data structure maintains **insertion order**?

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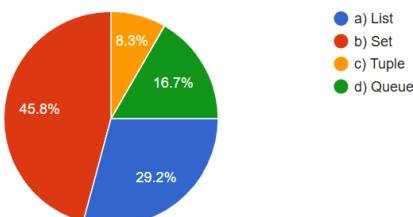
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Which is the best data structure for **checking membership** efficiently?

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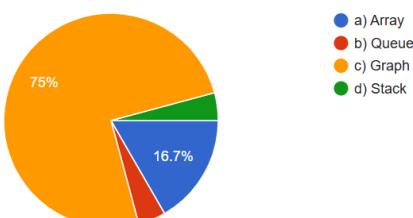
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Which of the following is **not linear** data structure?

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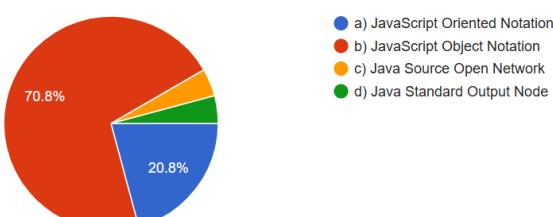
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JSON stands for:

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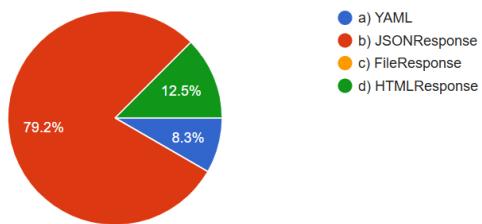
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In FastAPI, the default response model uses:

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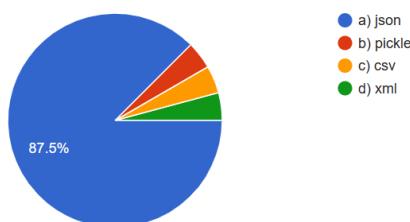
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Which Python module is used to work with JSON data?

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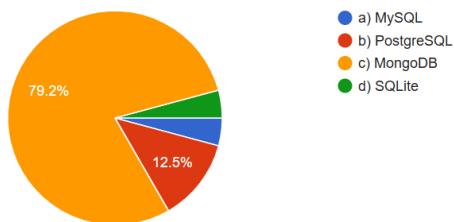
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Which database is **NoSQL**?

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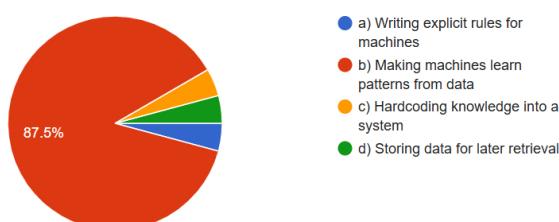


Section 3: Machine Learning (ML) Theory

Machine Learning is best described as:

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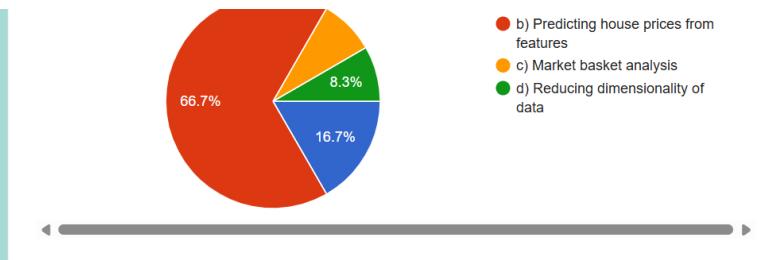


Which of the following is an example of **supervised learning**?

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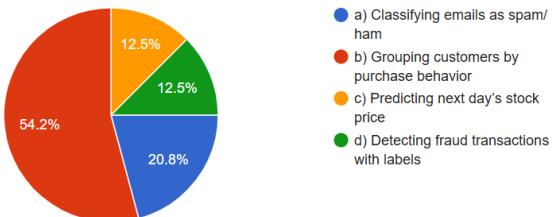
- a) Clustering news articles



Which is **unsupervised learning**?

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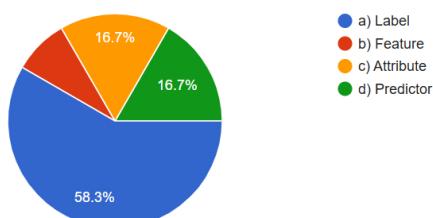
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In supervised learning, the target variable is also called:

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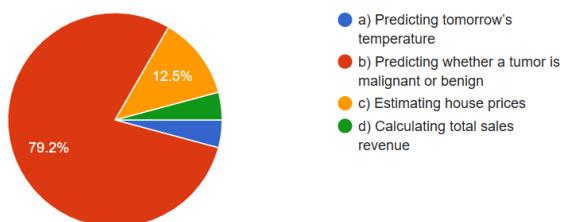
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Which of the following is an **example of classification**?

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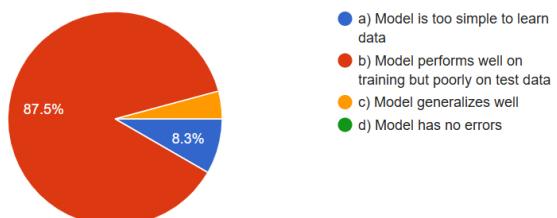
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Overfitting means:

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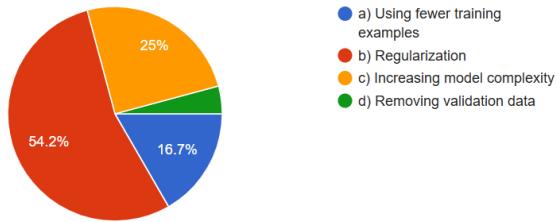
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Which technique helps prevent overfitting?

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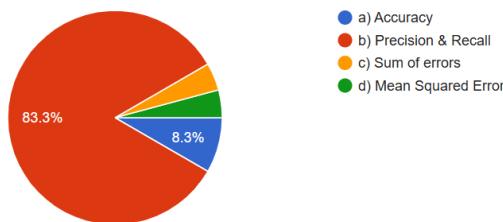
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Which metric is best for imbalanced datasets?

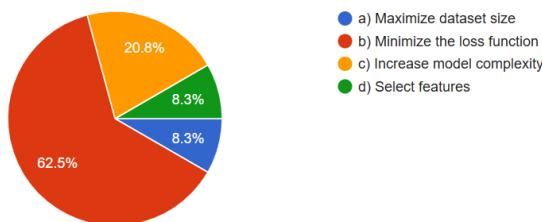
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Gradient Descent is used to:

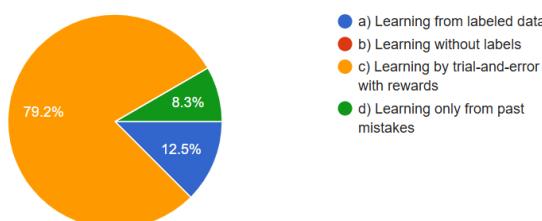
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What type of learning is Reinforcement Learning?

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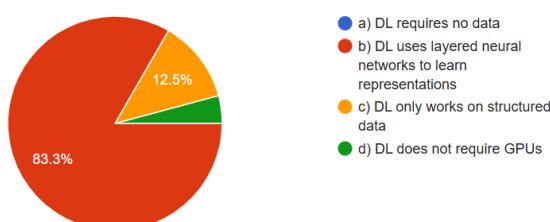


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Section 4: Deep Learning (DL)

What differentiates Deep Learning from traditional Machine Learning?

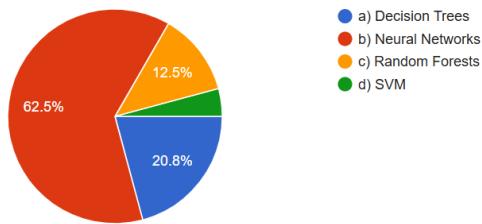
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A **perceptron** is the fundamental building block of:

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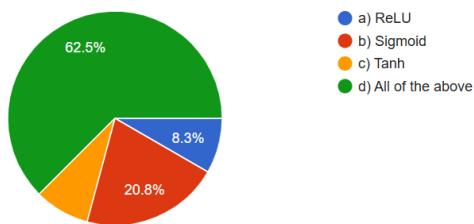
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Which of these is a **non-linear activation function**?

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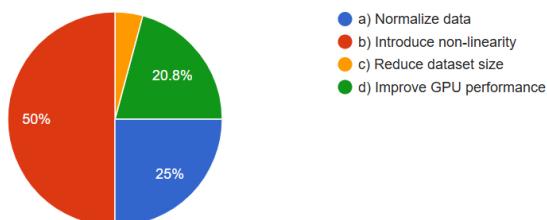
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What is the main purpose of an **activation function**?

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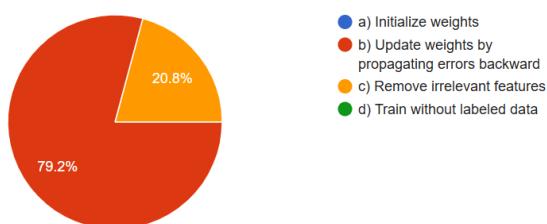
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Backpropagation is used to:

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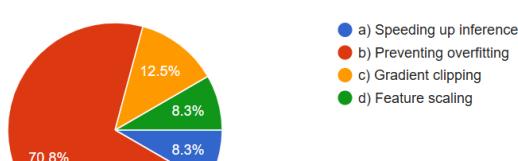
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Dropout is used for:

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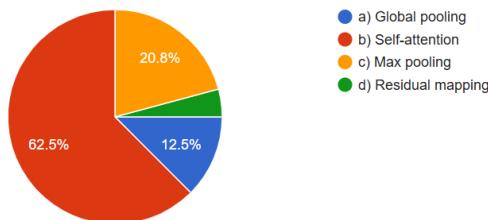
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Which attention mechanism powers Transformers?

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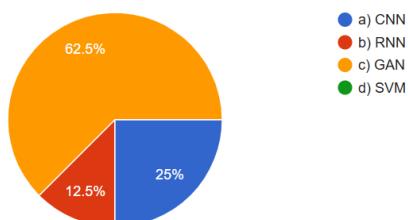
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Which of these is a **generative model**?

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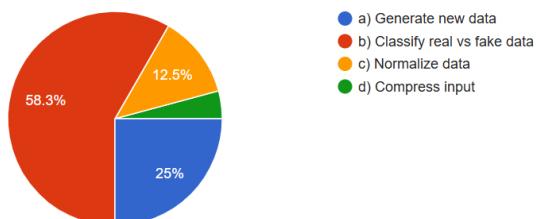
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The **discriminator** in GANs is trained to:

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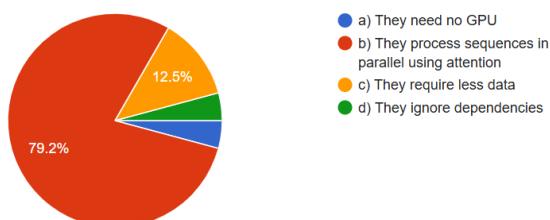
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Which is a key reason Transformers outperform RNNs?

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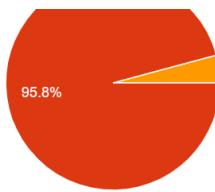
Section 5: Artificial Intelligence & Agentic AI

Artificial Intelligence (AI) can be best described as:

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- 
- a) Making computers solve only math problems

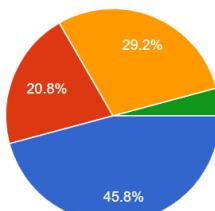


- b) Designing machines that mimic human-like intelligence
- c) Programming step-by-step Instructions
- d) Using only statistical methods

Which of these is an example of **Narrow AI**?

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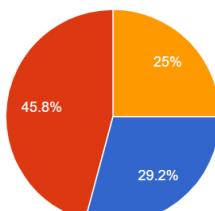


- a) A chess-playing engine
- b) A human-level general AI
- c) A robot with emotions and creativity
- d) A universal problem solver

Knowledge-based AI systems rely on:

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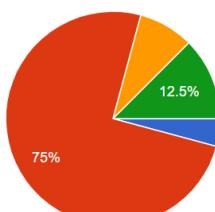


- b) Predefined rules and logic
- c) Reinforcement rewards
- d) Randomized guessing

Which of these is a **limitation of classical AI (symbolic AI)**?

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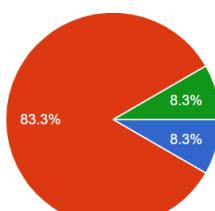


- b) Difficulty handling real-world complexity and ambiguity
- c) Strong adaptability
- d) Scalability with large datasets

Agentic AI differs from traditional AI because:

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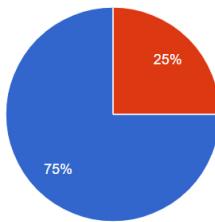


- b) It focuses on taking actions to achieve goals autonomously
- c) It ignores the environment
- d) It is purely symbolic reasoning

The main components of an **Agentic AI system** are:

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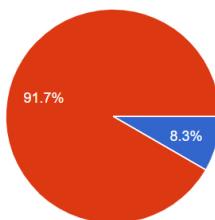


- a) Memory, Actions, Planning, Environment interaction
- b) Rules, Data, Labels, Output
- c) Only Data and Model
- d) Hardcoded Instructions

Which is a key feature of **Agentic AI?**

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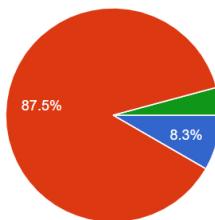


- a) Static outputs from prompts only
- b) Self-directed decision-making and reasoning
- c) No interaction with external systems
- d) Only classification tasks

Which scenario describes **multi-agent systems.**

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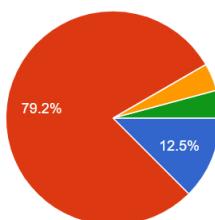


- a) A single chatbot answering FAQs
- b) Multiple AI agents collaborating on supply chain optimization
- c) A single recommendation engine
- d) A standalone rule-based expert system

Which architecture is often used in modern Agentic AI systems?

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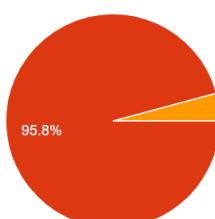


- a) Prompt → Answer only
- b) Perception → Planning → Action → Reflection
- c) Label → Model → Prediction
- d) Rule-based If-Else trees

Future vision of Agentic AI involves:

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- a) AI that only answers trivia
- b) Fully autonomous digital workers collaborating with humans
- c) Only using reinforcement learning
- d) No need for ethical considerations

You are hired as an **AI Engineer at a fintech startup**. The company wants to build a **Trading Agent** that can make stock trading decisions automatically. The agent should be able to:

- * Collect market data in real time
- * Analyze price movements and trends
- * Decide whether to **buy, sell, or hold**
- * Learn from past trading performance

Question:

Explain your approach to building this Trading Agent step by step. What AI/ML techniques would you use in each stage (data collection, analysis, decision-making, learning)? Finally, suggest at least two enhancements you would implement to make the agent more robust and profitable in real-world trading scenarios.

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I wuld build the trading agent in four steps. first stream and store market data in real time. second create features like returns, volatility, and order book signals. third use models to predict price moves and an RL layer to decide buy/sell/hold; and fourth, test it with realistic backtests that include fees and slippage. The agent would keep learning by retraining on new data and monitoring performance. To make it stronger, I wuold add smarter execution that accounts for slippage and use ensembles tuned for different market conditions, so it stays more reliable and profitable.

Data collection
Analysis
Decision making
Learning

– I will make a agent which will has 5 to 8 llms which works separately their work like, I need data of news so I put one agent on that then it will provide the news where agent can decide whether what to do ..
– Like at the top there will be a best model ever which will handle all the things and check the result of all other llms then decide what to do ..
– As I said I will use multiple agent one will fetch data from twitter as crypto or stock

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