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Trigonometric Integrals

(7-2)

$$\cos^2(\theta) + \sin^2(\theta) = 1$$

$$1 + \frac{\sin^2(\theta)}{\cos^2(\theta)} = \frac{1}{\cos^2(\theta)}$$

$$1 + \tan^2(\theta) = \sec^2(\theta)$$

$$\sec(x) = \frac{1}{\cos x}$$

Odd power

$\int \sin^n x - \cos^n x - dx$

$\int \sin^3 x \cos^2 x - dx$

$u = \sin x \rightarrow du = \cos x - dx$

$\int u^2 \cos^2 x \cdot du \cdot \cos^2 x + 1 - \sin^2 x$

$= 1 - u^2$

$\int u^2 (1 - u^2) \cdot du$

$= \int (u^2 - u^4) \cdot du$

$= \frac{u^3}{3} - \frac{u^5}{5} + C$

$= \frac{\sin^3 x}{3} - \frac{\sin^5 x}{5} + C$

$\int \sin^4(ax) \cos^2(ax) dx$

$\int \sin^2(ax) \cos^2(ax) \sin(ax) dx$

$u = \cos(ax) \rightarrow du = -2a \sin(ax)$

$= -2 \int \sin^2(ax) u^2 \cdot du \cdot \sin(ax)$

$= -2 \int (1 - u^2) u^2 \cdot du \cdot (-1 - u^2)$

$= 2 \int (u^2 - 2u^4 + u^6) \cdot du$

$= 2 \left(\frac{u^3}{3} - \frac{2u^5}{5} + \frac{u^7}{7} \right) + C$

$= 2 \left(\frac{\cos^3(ax)}{3} - \frac{2\cos^5(ax)}{5} + \frac{\cos^7(ax)}{7} \right) + C$

Even Power

$\int \sin^2(x) \cos^2(x) \cdot dx$

$= \int \frac{1}{2} (1 - \cos(2x)) \cdot \frac{1}{2} (1 + \cos(2x)) \cdot dx$

$= \frac{1}{4} \int (1 - \cos^2(2x)) \cdot dx$

$= \frac{1}{4} \int (1 - \cos^2(2x)) \cdot dx$

$= \frac{1}{4} \int (1 - \cos(4x)) \cdot dx$

$= \frac{1}{4} \left(x - \frac{\sin(4x)}{4} \right) + C$

$= \frac{x}{4} - \frac{\sin(4x)}{16} + C$

$\int \cos^4 \theta \cdot d\theta$

$= \int \frac{1}{2} (1 + \cos(2\theta))^2 \cdot d\theta$

$= \frac{1}{2} \int (1 + 2\cos(2\theta) + \cos^2(2\theta)) \cdot d\theta$

$= \frac{1}{2} \int (1 + 2\cos(2\theta) + \frac{1}{2}(1 + \cos(4\theta))) \cdot d\theta$

$= \frac{1}{2} \int \left(\frac{3}{2} + 2\cos(2\theta) + \frac{1}{4}\cos(4\theta) \right) \cdot d\theta$

$= \frac{1}{2} \left(\frac{3}{2}\theta + \sin(2\theta) + \frac{1}{16}\sin(4\theta) \right) + C$

$= \frac{3}{4}\theta + \frac{1}{2}\sin(2\theta) + \frac{1}{32}\sin(4\theta) + C$

tan multiplied by sec, sec, sec, power

$\int \tan^n x \sec^2 x \cdot dx$

$u = \tan x \rightarrow du = \sec^2 x \cdot dx$

$\int u^2 \cdot du$

$= \frac{u^3}{3} + C = \frac{\tan^3 x}{3} + C$

$\int \tan^4 x \sec^2 x \cdot dx$

$u = \tan x \rightarrow du = \sec^2 x \cdot dx$

$\int u^3 \cdot du$

$= \frac{u^4}{4} + C = \frac{\tan^4 x}{4} + C$

tan^n sec^n

$\int \tan^3 x \sec^3 x \cdot dx$

$\int \tan^2 x \sec^2 x \cdot \tan x \cdot dx$

$u = \tan x \rightarrow du = \sec^2 x \cdot dx$

$\int u^2 \cdot u \cdot du$

$= \frac{u^4}{4} + C = \frac{\tan^4 x}{4} + C$

$\int \tan^4 x \sec^4 x \cdot dx$

$\int \tan^2 x \sec^2 x \cdot \tan^2 x \cdot dx$

$u = \tan x \rightarrow du = \sec^2 x \cdot dx$

$\int u^2 \cdot u^2 \cdot du$

$= \frac{u^5}{5} + C = \frac{\tan^5 x}{5} + C$

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USAII Certified Artificial Intelligence Consultant Sample Questions (Q57-Q62):

NEW QUESTION # 57

Which of the following is an example of AGI?

- A. None of the above
- B. Google's search engine
- C. All of the above
- D. Amazon's recommendation engine
- E. ChatGPT

Answer: A

Explanation:

The correct answer is E. None of the above because Artificial General Intelligence, or AGI, refers to an AI system that can understand, learn, reason, adapt, and perform intellectual tasks across many domains at a human-like level. AGI is different from narrow AI, which is designed to perform specific tasks within limited boundaries.

Google's search engine is not AGI because it is built to retrieve, rank, and organize information based on search queries. Amazon's recommendation engine is also not AGI because it is designed for a specific purpose: recommending products based on user behavior, preferences, and patterns. ChatGPT is a powerful generative AI and language model, but it is still not AGI because it does not possess true general intelligence, consciousness, self-awareness, or independent human-like reasoning across all domains. Since none of the listed systems qualifies as Artificial General Intelligence, the correct answer is E. None of the above .

NEW QUESTION # 58

Which of the following is NOT a learning category for the ML model?

- A. Reinforcement learning
- B. Supervised learning
- C. Semi-supervised learning
- D. Unsupervised learning
- E. Semi Reinforcement learning

Answer: E

Explanation:

The correct answer is D. Semi Reinforcement learning because it is not commonly recognized as a standard learning category for machine learning models. The major machine learning categories include supervised learning, unsupervised learning, reinforcement learning, and semi-supervised learning. Supervised learning uses labeled datasets where the model learns from known input-output examples. Unsupervised learning uses unlabeled data to discover patterns, clusters, or hidden structures. Reinforcement learning trains an agent through interaction with an environment using rewards and penalties. Semi-supervised learning combines a small amount of labeled data with a larger amount of unlabeled data to improve learning when fully labeled datasets are limited.

"Semi Reinforcement learning" is not normally listed as a core ML learning category in standard AI and machine learning learning paths. Therefore, among the given options, the one that is NOT a learning category for the ML model is D. Semi Reinforcement learning .

NEW QUESTION # 59

Which of the following is MLOps?

- A. Continuous deployment
- B. Workflow automation
- C. Continuous integration
- D. a, b and c only
- E. a and b only

Answer: D

Explanation:

The correct answer is E. a, b and c only because MLOps includes workflow automation, continuous integration, and continuous

deployment as important practices for managing the machine learning lifecycle.

MLOps, or Machine Learning Operations, applies DevOps-style principles to machine learning systems so models can be developed, tested, deployed, monitored, and maintained in a reliable and repeatable way.

Workflow automation is part of MLOps because machine learning pipelines often include data ingestion, data validation, feature engineering, model training, model evaluation, deployment, and monitoring. Continuous integration is also included because ML code, data pipelines, configuration files, and model components need regular testing and validation when changes are made.

Continuous deployment is another key part because approved models should be deployed efficiently into production environments with version control, rollback options, and monitoring.

Since all three options describe important MLOps capabilities, the best answer is E. a, b and c only .

NEW QUESTION # 60

What is a prompt?

- A. For ChatGPT and OpenAI models, prompts mainly refer to a piece of text in natural language.
- B. Prompt refers to the input the user provides to the generative models.
- C. a and b only
- D. a, b and c only
- E. Prompts are the only way users can control the output generated by those models.

Answer: C

Explanation:

The correct answer is D. a and b only because a prompt is the input provided by a user to a generative AI model. In natural language systems such as ChatGPT and other language models, the prompt is usually written as text in natural language. It may be a question, instruction, command, description, context, example, or task requirement that guides the model toward producing a response.

Statement A is correct because prompts are the user-provided input that generative models use to produce outputs. Statement B is also correct because, for ChatGPT and similar models, prompts commonly appear as natural language text. Statement C is not fully correct because prompts are an important way to guide model output, but they are not the only possible control mechanism. Outputs can also be influenced by system instructions, model settings, retrieval context, fine-tuning, guardrails, and application design. Therefore, the best answer is D. a and b only .

NEW QUESTION # 61

Which is the first useful computer program that came into existence in the AI world?

- A. AIS
- B. MLS
- C. GPS
- D. LPS
- E. EPS

Answer: C

Explanation:

The correct answer is B. GPS . In artificial intelligence history, GPS stands for General Problem Solver . It was an early AI program developed to simulate human problem-solving behavior. GPS was designed to solve problems by breaking them down into goals, subgoals, operators, and differences between the current state and the desired state. This approach became important because it introduced structured reasoning and symbolic problem solving, which were central ideas in early AI research.

LPS, MLS, AIS, and EPS are not the standard answer for the first useful computer program in the AI world in this context. GPS is widely recognized as one of the earliest useful AI programs because it attempted to model general reasoning rather than solving only one narrow calculation task. It showed how computers could be programmed to search through possible actions and work toward a goal. Therefore, the correct answer is B. GPS .

NEW QUESTION # 62

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