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Oracle Cloud Infrastructure 2024 Generative AI Professional

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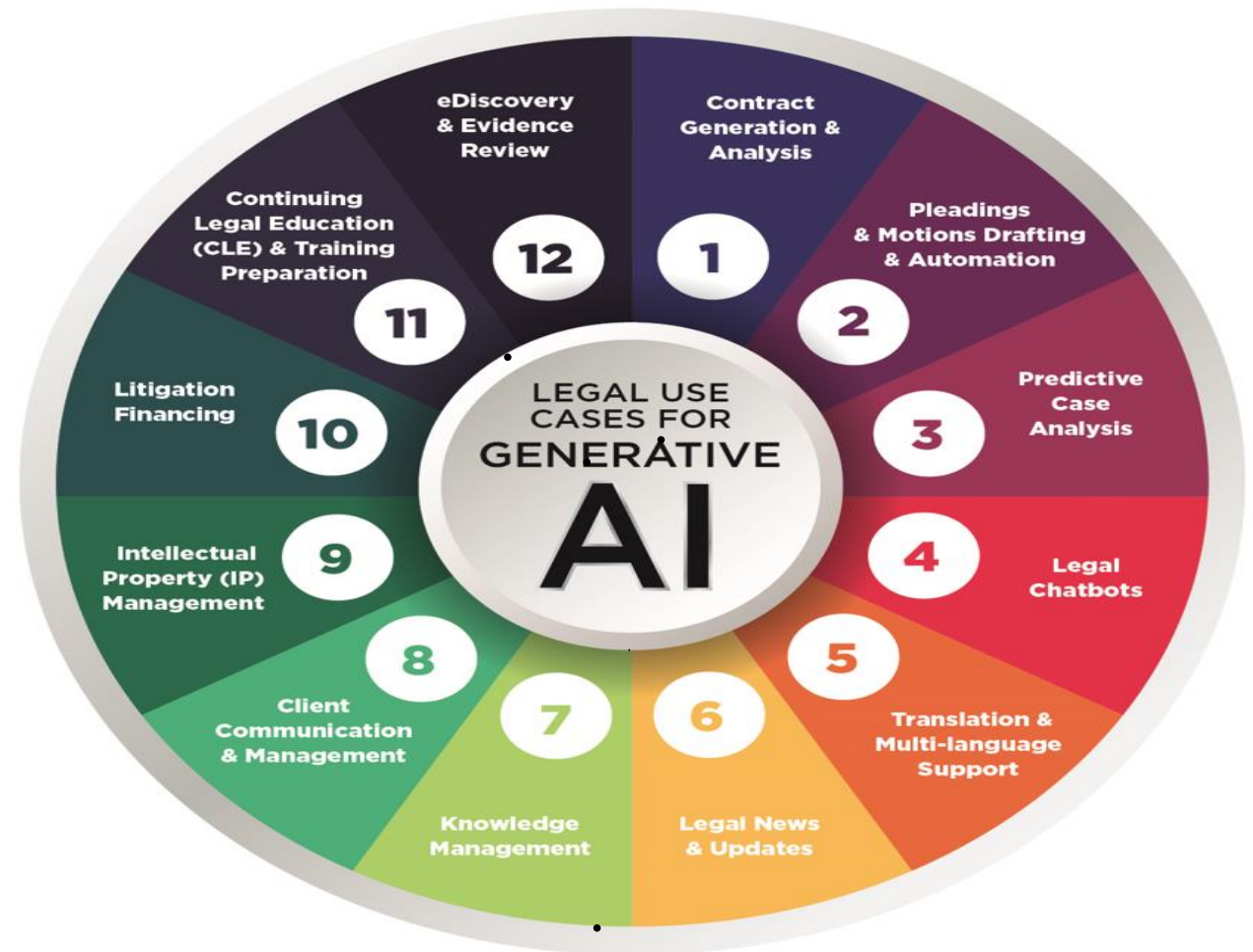
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TOPICS TO BE COVERED

1. Introduction to OCI and Generative AI
2. Understanding Generative AI
3. Key Features of OCI for AI
4. Challenges and Solutions
5. Certification
6. Conclusion and Future Scope
7. References



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Oracle's Cloud Platform-

- OCI is Oracle's cloud platform, providing a comprehensive suite of cloud services designed to run any application or workload efficiently.
- Key services include compute, storage, networking, databases, security, and AI/ML tools.
- Known for high performance, cost efficiency, and enterprise-grade security.

Generative AI-

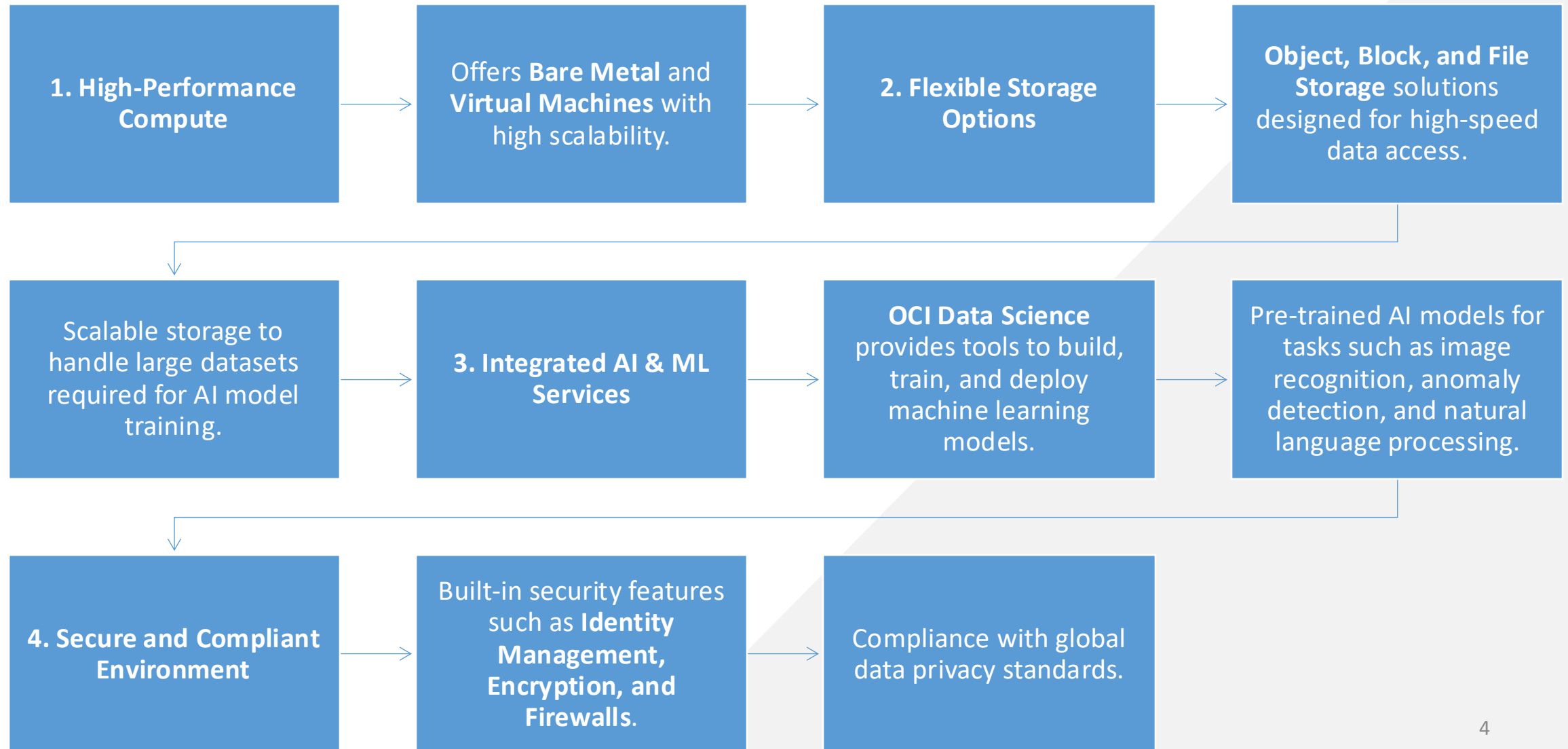
- **Generative AI** involves using machine learning models to generate new data, such as text, images, and audio.

Popular techniques include:

- Generative Adversarial Networks (GANs)
- Autoencoders
- Transformer models like GPT (Generative Pre-trained Transformers).



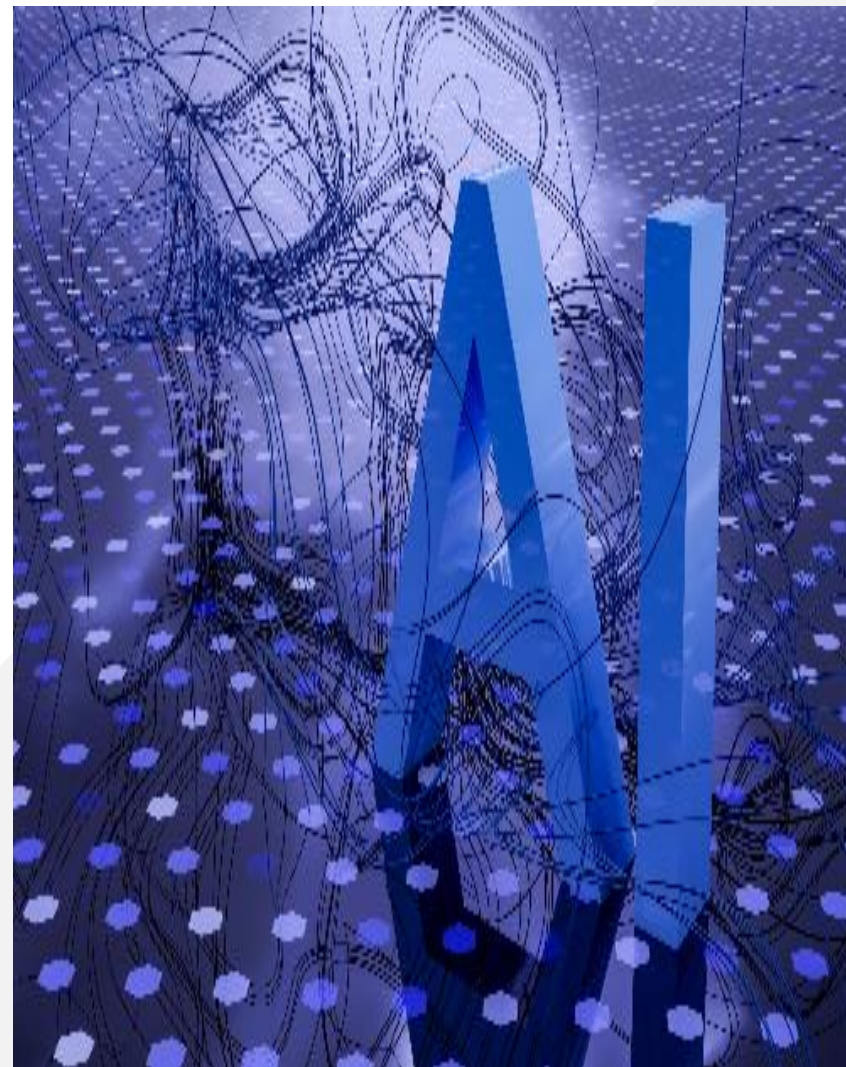
Key Features of OCI for AI



Challenges and Solution

Computational Power

- **Challenge:** Generative AI models, especially large ones like GPT, require massive computing power for training and deployment.
- **Solution:** Leverage OCI's high-performance **GPU Instances** and **bare metal servers** to meet the demands of AI training.
- **Model Interpretability**
- **Challenge:** Understanding how generative AI models make decisions can be difficult, creating trust issues in critical applications.
- **Solution:** Use explainable AI tools and techniques (e.g., SHAP, LIME) alongside OCI's data science services to improve model transparency.
- **Security Risks**
- **Challenge:** Generative models can be used to create deepfakes or malicious content, raising security concerns.
- **Solution:** OCI's **security layers** (encryption, identity management) ensure secure deployment of AI models and help prevent misuse.



Certification



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References

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THANK YOU