Conclusion

Artificial Intelligence is revolutionizing numerous industries, from healthcare and finance to transportati
However, deploying AI systems in real-world environments presents several critical challenges that must
carefully. These include ensuring the quality and representativeness of training data, preventing bias and
automated decisions, and maintaining transparency and interpretability of complex models. Moreover, A
significant computational resources, which can raise concerns around scalability, energy consumption, a
impact. Ethical considerations such as accountability, human oversight, and the risk of misuse must also
integrated into system design and regulation frameworks to ensure responsible adoption.