CSE484-Clound Computing (Lab activity 4)

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I. Question to the Answer no.1

Paper7:Surveillance Drone Cloud and Intelligence Service

Question: What are the key findings regarding the growth projections and trends in the drone cloud surveillance intelligence market?

KEy findings of the growth projections and trends in the drone cloud surveillance intelligence market is pyoy growth of 12.05 in 2023, with a (CAGR) of 13.58 over the period. This market underscores the critical need for research in drone cloud ,surveillance technologies to efficient process the increasing volume of data generated by drone functionality . finally, the addition of cloud computing with drone machine offers scalability, flexibility, realtime data processing, and analysis, contributing to increase surveillance capabilities. [1].

II. Question to the Answer no.6

Paper10:Using Agent Solutions and Visualization Techniques to Manage Cloud-based Education System

Question: How does the integration of agent technologies and visualization solutions enhance the effectiveness of cloud-based education services provision?

THe integration of agent technologies and visualization solutions increase the effectiveness of cloud-based education services provision by providing flexiblity and efficiency in manageing the resources and applications.visualization offer clear idea of system performance and organization , ultimately improving overall service and user's experience. Agent works with operations, optimize resource allocation, and ensure security. [2].

III. Question to the Answer no. 8

Paper 12: IRIS: Interference and Resource Aware Predictive Orchestration for ML Inference Serving

Question: What are the key findings of the experimental analysis conducted to evaluate the IRIS frameworks performance?

KEy idea of the experiment analysis include major reduction in QoS(Quality of service) violations compared to base schedulers, efficient cpu utilization, and effective QPS distribution management to meet QoS requirements.the statement "We target the multi-objective problem of QoS maximization with effective CPU utilization based on Queries per Second(QPS) predictions" mentioned in the abstract.
[3].

References

[1] S. Richhariya, K. Wanaskar, S. Shrivastava, and J. Gao, "Surveillance drone cloud and intelligence service," in *2023 11th IEEE International Conference on Mobile Cloud Computing, Services, and Engineering (MobileCloud)*. Los Alamitos, CA, USA: IEEE Computer Society, jul 2023, pp. 1–10. [Online]. Available: https://doi.ieeecomputersociety.org/10.1109/MobileCloud58788.2023.00007

[2] W. Huang and J. Li, "Using agent solutions and visualization techniques to manage cloud-based education system," in *2020 IEEE Intl Conf on Dependable, Autonomic and Secure Computing, Intl Conf on Pervasive Intelligence and Computing, Intl Conf on Cloud and Big Data Computing, Intl Conf on Cyber Science and Technology Congress (DASC/PiCom/CBDCom/CyberSciTech)*, 2020, pp. 375–379.

[3] A. Ferikoglou, P. Chrysomeris, A. Tzenetopoulos, M. Katsaragakis, D. Masouros, and D. Soudris, "Iris: Interference and resource aware predictive orchestration for ml inference serving," in *2023 IEEE 16th International Conference on Cloud Computing (CLOUD)*. Los Alamitos, CA, USA: IEEE Computer Society, jul 2023, pp. 1–12. [Online]. Available: https://doi.ieeecomputersociety.org/10.1109/CLOUD60044.2023.00021