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| JournalName: | **AsianJournalofResearchinComputerScience** |
| ManuscriptNumber: | **Ms\_AJRCOS\_139121** |
| TitleoftheManuscript: | **AUTONOMOUSDATABASESYSTEMS–ASYSTEMATICREVIEWOFSELF-HEALINGANDSELF-TUNINGDATABASESYSTEMS.** |
| TypeoftheArticle | **SystematicReview** |

PART1:Comments

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|  | **Reviewer’scomment**  **ArtificialIntelligence(AI)generatedorassistedreviewcommentsarestrictlyprohibitedduringpeerreview.** | **Author’sFeedback**(Itismandatorythatauthorsshouldwritehis/her feedback here) |
| **Pleasewriteafewsentencesregardingtheimportance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | This manuscript provides a comprehensive and up-to-date review of self-healing and self- tuningautonomousdatabasesystems.IthighlightskeyAIandMLtechniques,implementation strategies, and challenges. Given the increasing industry shift toward automation and AI in data infrastructure, this work offers valuable insights for both researchers and practitioners. |  |
| **Isthetitleofthearticlesuitable?**  **(Ifnotpleasesuggestanalternativetitle)** | Yes,thetitleclearlyreflectsthecontentandscopeofthe manuscript. |  |
| **Is the abstract of the article comprehensive? Do you suggesttheaddition(ordeletion)ofsomepointsinthis section? Please write your suggestions here.** | Theabstractisinformativeandcoverstheobjectives,methods,findings,and conclusions. However, the sentence structure could be improved slightly for conciseness and clarity. For example:   * Instead of “challenges from the utilization of AI/ML techniques in autonomous databasesstudyinclude…,”say“ChallengesinapplyingAI/MLtoautonomous databases include…” |  |
| **Isthemanuscriptscientifically,correct?Pleasewrite here.** | Yes,themanuscriptisscientificallysound,well-structured,andpresentsevidence-based conclusions. The research questions are well-formed, and the discussion appropriately  addressesthem. |  |
| **Arethereferencessufficientandrecent?Ifyouhave suggestions of additional references, please mention them in the review form.** | Yes,thereferencesarerecent(mostlypost-2020)andrelevant.However,the manuscript  wouldbenefitfromafewadditionalcitationsfromtop-tiervenueslikeSIGMODorVLDBto strengthen its technical authority. |  |
| **Isthelanguage/Englishqualityofthearticlesuitable for scholarly communications?** | Mostlyyes.Thelanguageisunderstandableandacademicintone.Afewsentencescouldbe edited for clarity and grammar, especially in the methodology and results sections. |  |
| **Optional/General**comments | Thisisavaluable reviewarticlewithgood coverageandcriticalinsightintothefield of  autonomousdatabasesystems.Minorpolishingoflanguageandatighterabstract would make it even stronger. |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (It is mandatory that authors should write his/her feedback here) |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

**Reviewer details:**

**Jasmin Bharadiya, University of the Cumberlands, USA**