

## PEER-REVIEW REPORT

**Name of journal:** *Artificial Intelligence in Gastroenterology*

**Manuscript NO:** 74644

**Title:** Machine learning approaches using blood biomarkers in non-alcoholic fatty liver diseases: a mini-review

**Provenance and peer review:** Invited manuscript; externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05572950

**Position:** Peer Reviewer

**Academic degree:** PhD

**Professional title:** Doctor, Reader (Associate Professor), Teacher

**Reviewer's Country/Territory:** India

**Author's Country/Territory:** Brazil

**Manuscript submission date:** 2021-12-31

**Reviewer chosen by:** AI Technique

**Reviewer accepted review:** 2022-01-30 04:17

**Reviewer performed review:** 2022-01-30 04:21

**Review time:** 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No



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<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="checkbox"/> ] Anonymous [ <input type="checkbox"/> ] Onymous Conflicts-of-Interest: [ <input type="checkbox"/> ] Yes [ <input checked="" type="checkbox"/> ] No
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#### **SPECIFIC COMMENTS TO AUTHORS**

1. The authors can compare the current review with recent reviews and state the novelty of this review. 2. A section, challenges, open issues and future directions can be added.

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**Peer-review model:** Single blind

**Reviewer's code:** 03737783

**Position:** Peer Reviewer

**Academic degree:** MD, PhD

**Professional title:** Assistant Professor, Lecturer

**Reviewer's Country/Territory:** Italy

**Author's Country/Territory:** Brazil

**Manuscript submission date:** 2021-12-31

**Reviewer chosen by:** Jin-Lei Wang

**Reviewer accepted review:** 2022-02-09 09:09

**Reviewer performed review:** 2022-02-24 03:19

**Review time:** 14 Days and 18 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input checked="" type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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#### **SPECIFIC COMMENTS TO AUTHORS**

Dear Editor, Carteri et al wrote a mini-review on a hypothetically interesting topic in the field of hepatology: machine learning approaches on NAFLD diagnosis. However their aims were not fulfilled by the resulting paper. The data presented are scarce and incomplete and the paper is too brief. Also there are several typos and the english has to be reviewed. You can find more details in the comments provided with the copy of the manuscript attached to this review.

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**Provenance and peer review:** Invited manuscript; externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 05769197

**Position:** Peer Reviewer

**Academic degree:** MSc, PhD

**Professional title:** Professor

**Reviewer's Country/Territory:** Germany

**Author's Country/Territory:** Brazil

**Manuscript submission date:** 2021-12-31

**Reviewer chosen by:** Jin-Lei Wang

**Reviewer accepted review:** 2022-03-02 07:43

**Reviewer performed review:** 2022-03-11 04:55

**Review time:** 8 Days and 21 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

<b>Peer-reviewer statements</b>	Peer-Review: [ <input checked="" type="radio"/> ] Anonymous [ <input type="radio"/> ] Onymous Conflicts-of-Interest: [ <input type="radio"/> ] Yes [ <input checked="" type="radio"/> ] No
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## **SPECIFIC COMMENTS TO AUTHORS**

The manuscript "Machine learning approaches using blood biomarkers in non-alcoholic fatty liver diseases: a mini-review." is well written and introduces AI methods to predict stages of fatty liver diseases. ML becomes more important in clinical practice and could be serve a precision tool in the prediction of disease severity. The authors give a short overview of fatty liver diseases and introduce briefly in ML. They highlight the importance and new approaches of ML in fatty liver diseases. Finally, the authors also underline the limitations of current knowledge and the importance for further research in this field. There are no major or minor comments to the authors.

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**Provenance and peer review:** Invited manuscript; externally peer reviewed

**Peer-review model:** Single blind

**Reviewer's code:** 03434021

**Position:** Editorial Board

**Academic degree:** MD

**Professional title:** Associate Professor

**Reviewer's Country/Territory:** Turkey

**Author's Country/Territory:** Brazil

**Manuscript submission date:** 2021-12-31

**Reviewer chosen by:** Jin-Lei Wang

**Reviewer accepted review:** 2022-03-02 19:27

**Reviewer performed review:** 2022-03-12 20:36

**Review time:** 10 Days and 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
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#### **SPECIFIC COMMENTS TO AUTHORS**

The authors evaluated the efficacy of using artificial intelligence in a common disease such as nafld in the manuscript entitled "' Machine learning approaches using blood biomarkers in non-alcoholic fatty liver diseases: a mini-review". Although this study is short, its subject has been chosen well and I think that it has the capacity to guide future studies on this subject. It is well written and and contains correct expressions. But in source 22, is it canbay or cambay? I think it needs clarification. In the text Cambay but in the references Canbay. After few spelling mistakes I recommend that it could be accepted for publication. Best regards.