

Reviewer A:

Recommendation: Revisions Required

A. Relevance: this paper has conformity between its content and offered topics.

Very Good

B. Contribution: this paper contains originality, novelty and innovation.

Good

C. Grammar: this paper is grammatically correct, uses appropriate dictions, has clear explanation and easily to understand.

Fair

D. Abstract: concise, clear, comprehensive, and readable.

E. Suggestion(s):

Penelitian mengangkat masalah yang relevan dalam dunia pendidikan, yaitu prediksi keberhasilan siswa menggunakan machine learning. Metodologi yang digunakan juga telah disusun dengan struktur yang jelas dan tahapan yang terdefinisi dengan baik. Analisis komparatif dilakukan menggunakan Naive Bayes dan Decision Tree, serta teknik ensemble seperti Bagging dan AdaBoost. Hasil penelitian sudah disajikan dengan metrik yang detail mencakup akurasi, presisi, recall, dan F1-score. Kesimpulan yang diambil didukung oleh hasil eksperimen yang dilakukan.

Beberapa kelemahan yang perlu mendapat perhatian antara lain: (1) pembahasan mengenai karakteristik dataset dan potensi bias yang masih terbatas; (2) tidak adanya pengujian signifikansi statistik untuk peningkatan performa yang dicapai; (3) aspek interpretabilitas model, yang sangat penting untuk aplikasi pendidikan, tidak dibahas secara memadai.

Saran-saran perbaikan:

Penulis perlu menambahkan analisis detail mengenai karakteristik dataset dan distribusinya, serta mendiskusikan potensi bias dalam proses pengumpulan data. Justifikasi pemilihan fitur dan relevansinya terhadap keberhasilan siswa juga perlu diperdalam. Dari sisi metodologi, penulis sebaiknya menambahkan pengujian signifikansi statistik untuk perbandingan performa, analisis interpretabilitas model terutama untuk Decision Tree, dan pembahasan proses tuning hyperparameter serta dampaknya terhadap hasil.

Dalam bagian hasil dan diskusi, penulis perlu menambahkan analisis fitur penting untuk mengidentifikasi prediktor kunci keberhasilan siswa, menyertakan confusion matrix untuk setiap model agar dapat lebih memahami pola kesalahan, dan mendiskusikan implikasi praktis bagi institusi pendidikan secara lebih detail.

Reviewer C:

Recommendation: Resubmit for Review

A. Relevance: this paper has conformity between its content and offered topics.

Good

B. Contribution: this paper contains originality, novelty and innovation.

Good

C. Grammar: this paper is grammatically correct, uses appropriate dictions, has clear explanation and easily to understand.

Fair

Endi Febriyanto, wasilah wasilah wasilah:

Letter of Acceptance (LoA)

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On behalf of the Editor, we are pleased to inform that your submission to JURNAL INFOTEL, "Optimization of Naive Bayes and Decision Tree Algorithms through the Application of Bagging and Adaboost Techniques for Predicting Student Study Success" **is Accepted**

Here are some important things we would like you to do in relation to manuscript acceptance:

1. Please kindly complete the payment by below scheme

- The cost paid by Author with Indonesia citizenship is Rp 2,500,000 (IDR)
- The cost paid by non-Indonesia citizenship is \$150 (USD)

The payment should be transferred to the following

Virtual Account (VA) Number : 8321066202500002

Name : Pembayaran Registrasi Jurnal INFOTEL TUP

E. Suggestion(s):

1. The author has not connected the urgency of the problem of predicting student graduation to be solved with the Machine Learning approach, please fix it.
2. The author needs to cite the following research "Peningkatan Kinerja Metode SVM Menggunakan Metode KNN Imputasi dan K-Means-Smote untuk Klasifikasi Kelulusan Mahasiswa Universitas Bumigora" to strengthen the State Of The art.
3. The author needs to clarify the research gap by explaining the limitations of previous research.
4. The author needs to clarify the research novelty of the approach used to solve the problem of diabetes detection
5. The author needs to compare the results of this study with previous studies in the form of tables or narrative sentences.
6. The author has not conducted a more in-depth analysis of why the proposed method has different performance on each performance indicator used such as precision, F1-score, etc.

Best Regard,

Editor in Chief