nrevive

Reviving Lives, Renewing Hope

Introduction

- Definition of coma
- Challenges in coma patient management
- Importance of timely and accurate decision-making

NRevive Problem & Solution

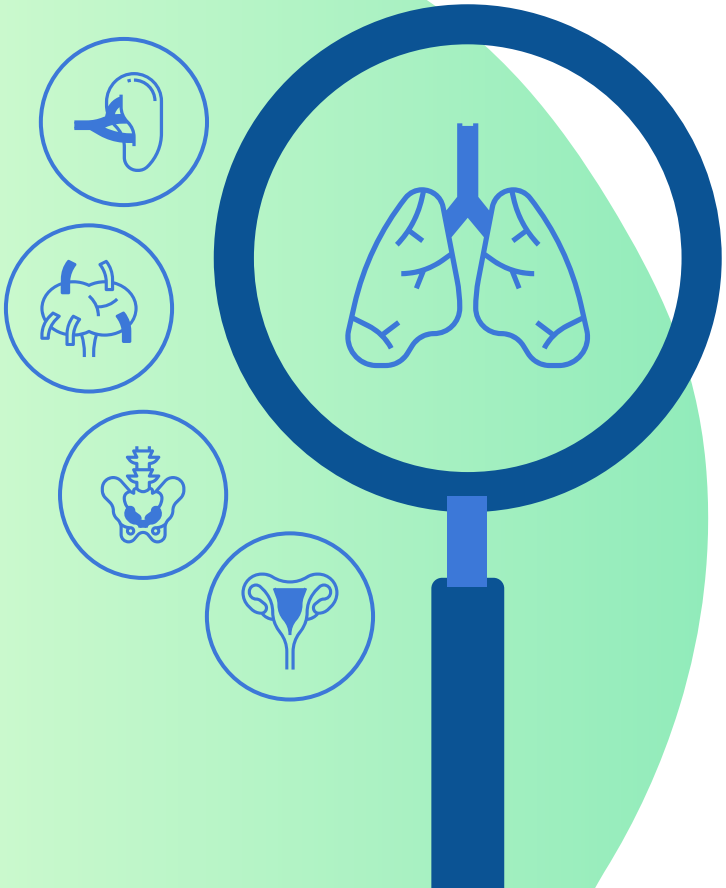
- **Problem**: Coma management requires complex analysis and decision-making, often burdening healthcare providers with time-consuming tasks.
- **Solution:** NRevive automates analysis through NLP and machine learning, providing accurate predictions and insights for optimized patient care.

NRevive Details

- **Functionality:** NRevive analyzes medical notes, predicts coma severity, recovery likelihood, and complication risks.
- **Technologies:** Utilizes Flask for backend, HTML/CSS/Bootstrap for frontend, and advanced NLP and ML models.
- **User Interaction**: Intuitive UI allows healthcare providers to input data and receive actionable insights.

NLP Model

- Core component for processing and analyzing medical notes.
- Extracts relevant information for coma management.

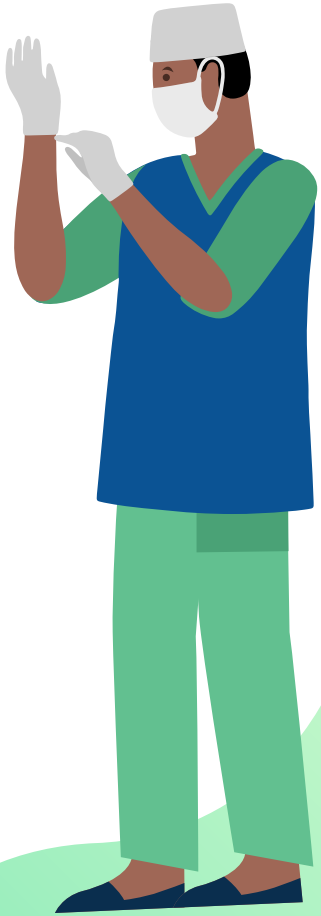


Machine Learning Models

- Predicts recovery likelihood, severity assessment, and complication risks.
- Utilizes historical data and treatment plans.

Sample Dataset (`coma_medical_notes.csv`)

Representative sample for training and testing models.



Project Explanation

- Coma Severity Assessment
- Recovery Prediction
- Complication Risk Assessment

nrevive -Business Value

01 Improved Patient Care

02 Efficiency and Time Savings

03 Enhanced Clinical Decision Support

04 Risk Mitigation and Data-driven Insights

Market Scope

- TAM: All healthcare facilities managing coma patients.
- SAM: Facilities adopting AI-assisted care solutions.

Revenue Streams

- Subscription Model: Offering tiered plans based on facility size and usage.
- Consultation Services: Providing personalized training and support for healthcare providers.
- Data Insights Sales: Aggregating anonymized data for research and development purposes.

Competitor Analysis

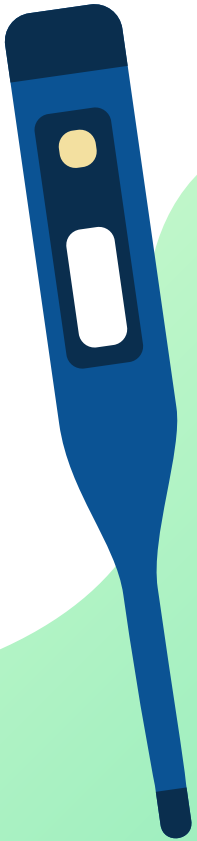
- Strengths: Advanced NLP and ML capabilities, user-friendly interface, comprehensive insights.
- Weaknesses: Limited customization options, initial integration challenges.
- Unique Selling Proposition: Holistic approach to coma management, combining NLP, ML, and user-centric design.

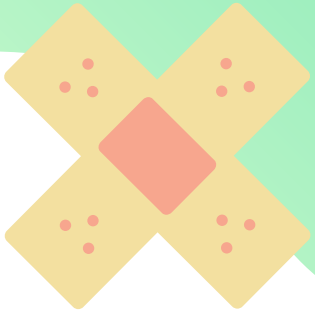
Future Prospects

- Scalability: Expansion into other medical domains requiring data-driven decision support.
- Impact Potential: Improving patient outcomes, reducing healthcare costs, and advancing medical research.

Implementation Challenges

- Regulatory compliance
- Data privacy concerns
- Integration with existing healthcare systems





ProjectLink

https://github.com/nidaa-awawdeh/nrevive

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Conclusions

Nrevive:The AI-Powered Coma Care Assistant marks a significant advancement in healthcare technology, offering valuable support to healthcare providers in managing coma patients. With its accurate predictions, user-friendly interface, and potential for improving patient outcomes, this application represents a promising tool for enhancing clinical decision-making and ultimately optimizing patient care.

References

- https://path.upmc.edu/cases/case268.html
- https://coma.is.tue.mpg.de

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Thanks

Do you have any questions?

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