🚀 Hi, I want to share with you about my latest fetal health data analysis! 🚀

As part of my journey in data science and machine learning, I recently analyzed a fetal health dataset with 22 features and nearly 2126 rows. This dataset is very famous on Kaggle with the goal to understand the patterns or trends that affect the fetal health column.

🔍 Project Highlights:

* Exploratory Data Analysis: Used statistical analysis and data visualizations to uncover patterns in fetal health indicators.
* Use PCA technique to reduce dimension from 21 to 2 or 3 principal components to visualize and see how data distributed.
* Data Preprocessing & Feature Engineering: Cleaned, transformed, and enhanced the dataset to optimize model accuracy.
* Model Development: In this project, I build 4 models (Logistic Regression, Random Forest, Decision Tree, Neural Network) and compare the performance to choose the best model in production environment.

💡 Key Insights: This project allowed me to dive deep into feature significance and model evaluation, demonstrating how data-driven insights can potentially inform healthcare decisions. Although this is a personal project, the predictive model achieved here could lay the groundwork for more advanced healthcare applications.

💻 Tech Stack: Python, pandas, numpy, scikit-learn, matplotlib, seaborn, pytorch

I hope you find my projects helpful in any kind. I’m looking forward to taking on more data-driven challenges and exploring how data science can impact healthcare or any other fields!

📊 Interested in collaborating? Let’s connect! I’d love to discuss potential projects, data science applications, or exchange insights on machine learning and healthcare analytics.

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