

**Technology Bucket** : Healthcare & Biomedical Devices

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**Category**: Software

**Problem Code** : AR2

**College Code** : 1-314430950

## IDEA

Continuous monitoring of Cardiotocographic data by passing it through a model that was trained to predict the occurrence of fetal distress.

We use  
Deep Learning

# Idea / Approach details

1. Predict the occurrence of complications during child birth.
2. This model could be deployed at any situation where the time series data is available and in need of predicting the occurrence of any complication.
3. For accurate prediction with out involvement of any doctor

Data: Physionet ECG Dataset

Hardware: Raspberry Pi(For Deployment)

Software: Python with installed packages(TensorFlow, Keras)

Algorithms: Anomaly detection using Artificial Neural Networks and Support Vector Machines