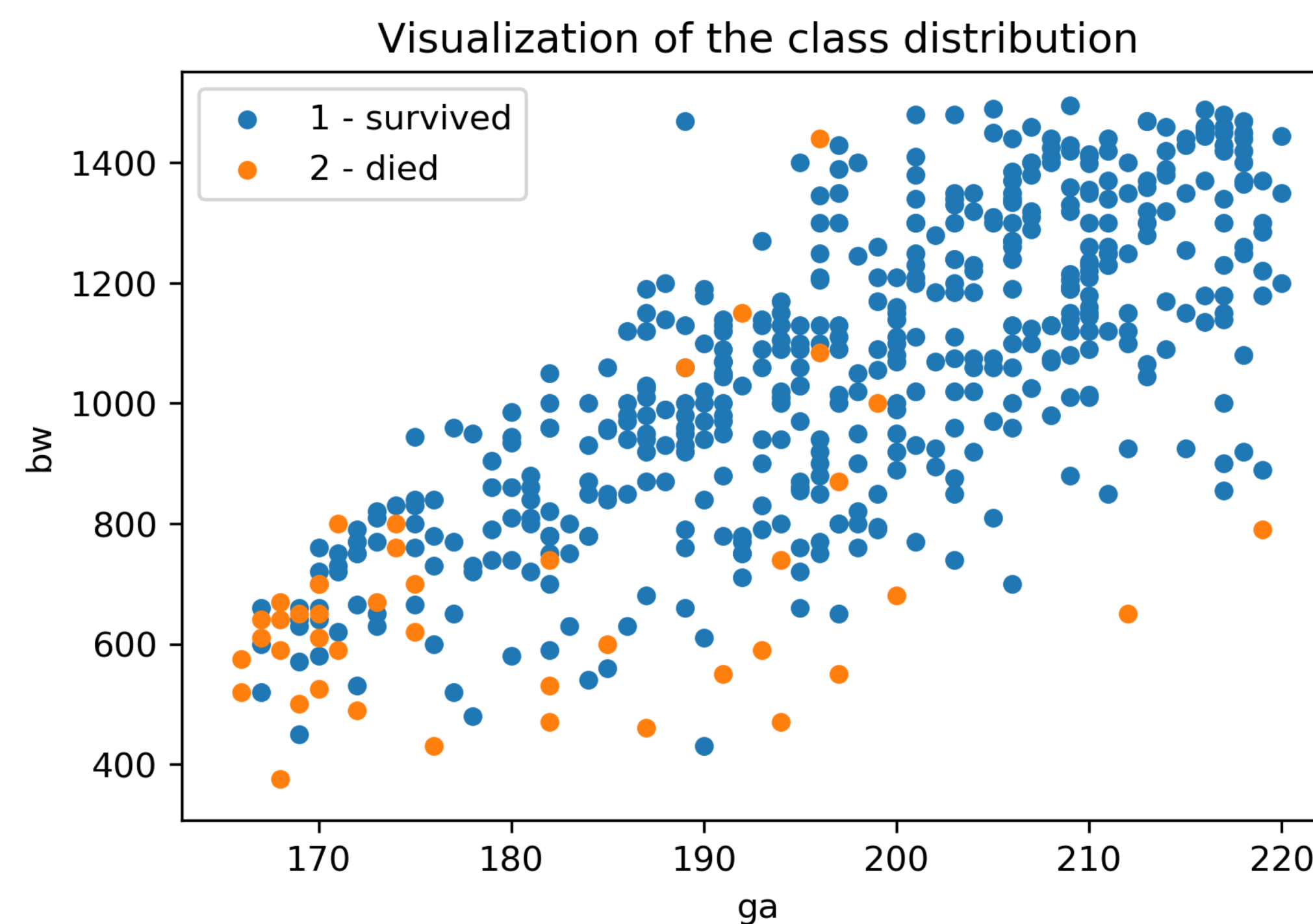


Machine learning in neonatal intensive care

Basic data

Training set

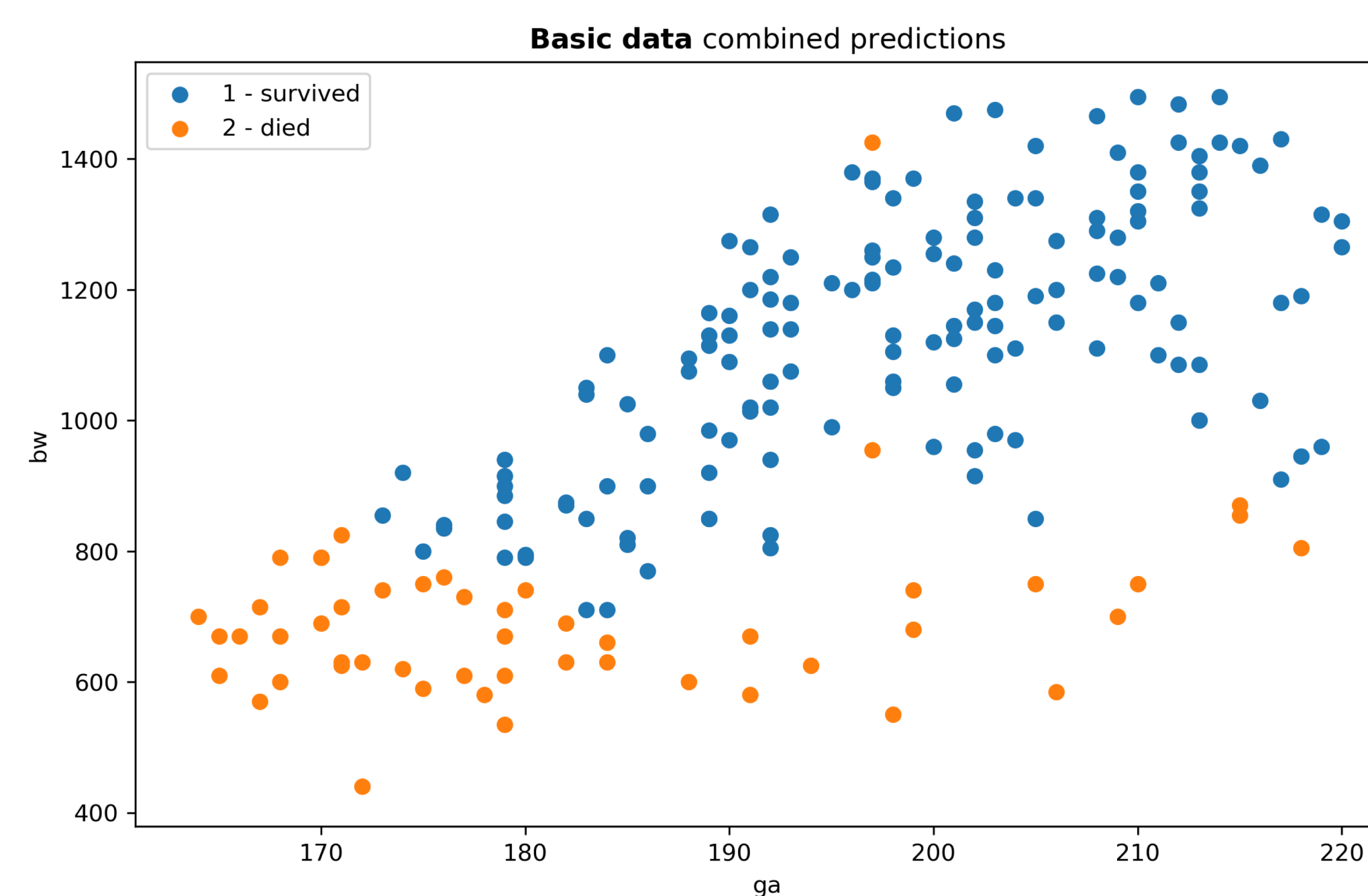


Use different classifiers:

- Logistic Regression
- Decision Trees
- Support Vector Machine
- Gaussian Naive Bayes
- Gaussian Processes

one prediction

Combined prediction:



Time-series data

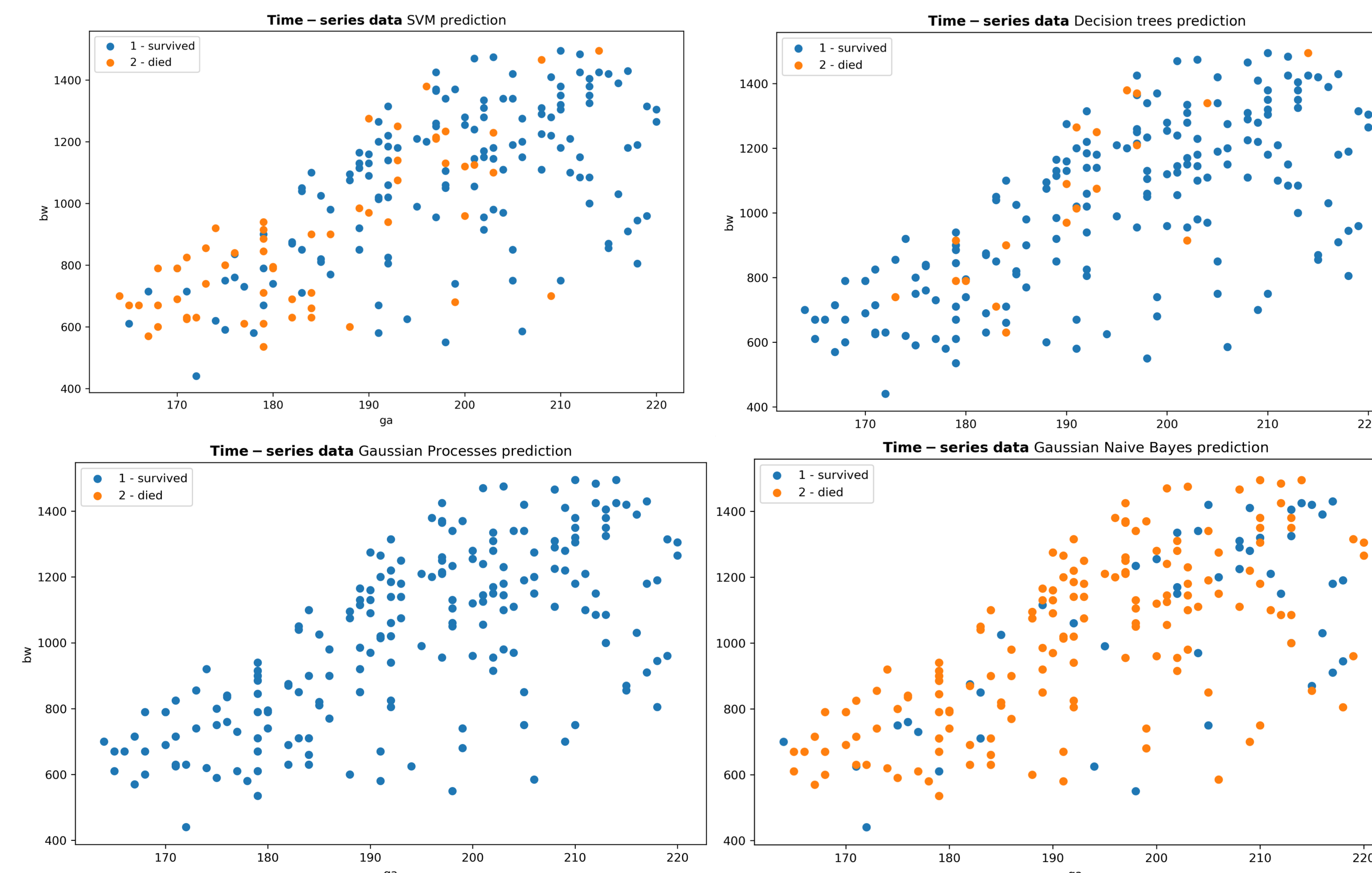
Extract statistical features from the time-series data:

- mean and variance
- Slope and intercept of linear regression

Use same classifiers as for basic data

➔ mapping back prediction in the basic data space

Predictors do not discover specific pattern



Combined data

Combining basic data with time-series data

Again, a mixture of classifiers can help to make more safe decision

