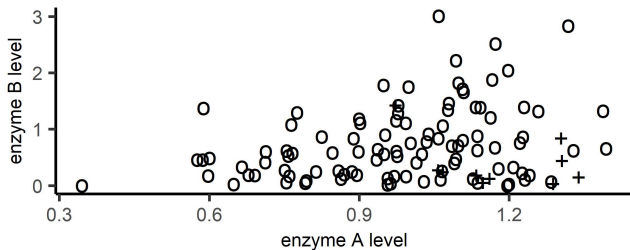


a. Original Data

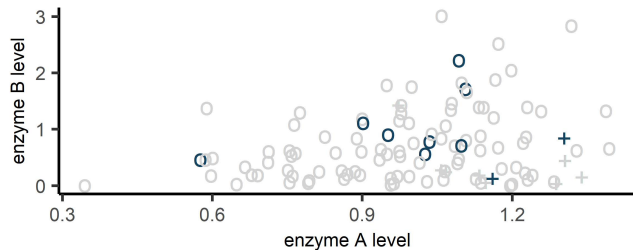
State + diseased ○ normal



The simulated data,
containing 10 diseased (+) and 100 normal (o) cells.

b. Under Sampled Data

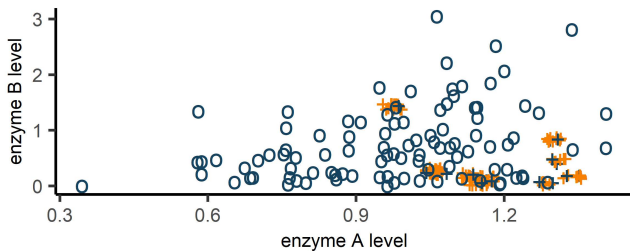
Type ● Original ● Removed State + diseased ○ normal



The simulated dataset, with
90 observations removed with random under sampling.

c. Over Sampled Data

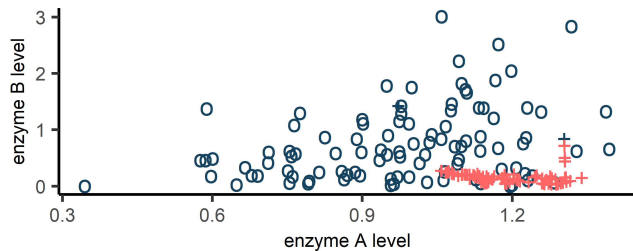
Type ● Original ● Added State + diseased ○ normal



The simulated dataset, with 90 observations added using random over sampling. Here, the observations were jittered for visualization purposes.

d. SMOTE Sampled Data

Type ● Original ● SMOTE State + diseased ○ normal



The simulated dataset, with
90 synthetic observations generated using a SMOTE-based technique.