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| **Predict disease classes using genetic microarray data** |

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# Abstract

## What is a DNA Microarray?

The DNA microarray is a tool used to determine whether the DNA from a particular individual contains a mutation in genes like BRCA1 and BRCA2.

## For what is a DNA microarray used?

Today, DNA microarrays are used in clinical diagnostic tests for some diseases. Sometimes they are also used to determine which drugs might be best prescribed for individuals, because genes determine how our bodies handle the chemistry related to those drugs.

## About our work

Using machine learning to develop a method that uses genetic microarray data to predict disease class. This work tries to evaluate different machine learning techniques to predict certain types of diseases.

The DNA microarray dataset we are pretending to use was given and contains a total of 69 different patients and 7,070 genes expressions are measured in order to classify these patient’s diseases into the following cases: EPD, JPA, MED, MGL, RHB.

# Bibliography

*National Human Genome Research Institute*. (2020, August 15). Retrieved from DNA Microarray Technology Fact Sheet: https://www.genome.gov/about-genomics/fact-sheets/DNA-Microarray-Technology#:~:text=in%20BRCA1%20alone.-,The%20DNA%20microarray%20is%20a%20tool%20used%20to%20determine%20whether,used%20to%20make%20computer%20microchips.