

# Developer Friendly and Computationally Efficient Predictive Modeling without Information Leakage: The `emil` Package for R

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This repository contains all code required to run the examples, benchmarking test, and producing the figures of the original publication.

## Code examples from the paper

The code examples of section 2 and 3 of the paper can be found in the script `v85i13.R`.

The file should be run using the makefile command below:

```
make code-examples
```

Alternatively, to skip the most time consuming steps you may also run the like this:

```
R --vanilla -f v85i13.R --args --quick
```

## Benchmark study

Clone, install dependencies, and run in one go:

```
git clone https://github.com/Molmed/Backlin-2017.git
cd Backlin-2017
make benchmark
```

The code is written for MacOS or Linux operating systems with R version 3.5.0 and package dependencies listed in `dependencies.csv`.

In addition to R dependencies you also need Python (preferably version 3.5.2) to enable memory profiling, implemented using `syrupy`.

The code should work fine with other versions of R, Python, and package dependencies too but is not *guaranteed* to do so. If you encounter errors please post an issue or even better a pull-request with a fix.