




app

 Upload Data


 Descriptive Stats

 Compare Groups

 Risk Factors

 **Survival Analysis**

 Correlations

 Analyze

Data Selection

Choose Dataset

COVID-19 & Multiple ... 






Survival Analysis

Analyze **time-to-event** data. How long do patients survive? How quickly do events occur? We'll use **Kaplan-Meier curves** and **Cox regression** to answer these questions.



Configure Analysis

What do you want to analyze? 

- ☐  Compare survival between groups (Kaplan-Meier + Log-rank test)
- ☒  Find predictors of survival (Cox Regression)


Time Variable


How long until event or censoring? 

outcome 

Event Variable

Did the event occur? 

age_in_cat 

 Binary event detected: 1 and 2

 Which value means the event **occurred**?

Event occurred when value is:

☒ 1 ☐ 2

Predictor Variables

Which variables might predict survival time?



outcome_label ×

secret_name ×

report_source ×



bmi_in_cat2 ×

covid19_admissi... ×

> 👁 Preview Data

🎯 Find Survival Predictors

Dropped 31 rows with missing data (51.7%)

Converting categorical variables to dummy variables: outcome_label, secret_name, report_source, bmi_in_cat2

Error running analysis: Convergence halted due to matrix inversion problems. Suspicion is high collinearity. Please see the following tips in the lifelines documentation:
<https://lifelines.readthedocs.io/en/latest/Examples.html#problems-with-convergence-in-the-cox-proportional-hazard-model>Matrix is singular.

ConvergenceError: Convergence halted due to matrix inversion problems. Suspicion is high collinearity. Please see the following tips in the lifelines documentation:

<https://lifelines.readthedocs.io/en/latest/Examples.html#problems-with-convergence-in-the-cox-proportional-hazard-model>Matrix is singular.

Traceback:

```
File "/Users/jasontouleyrou/Projects/md_data_explorer/src/cli
cph, summary_df = run_cox_regression(
    ~~~~~^

    analysis_df,
    ^^^^^^^^^^^^^^
...<2 lines>...
    covariates=covariates
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
)
^
```

```
File "/Users/jasontouleyrou/Projects/md_data_explorer/src/cli
cph.fit(data, duration_col=duration_col, event_col=event_col,
~~~~~^
```

```
File "/Users/jasontouleyrou/Projects/md_data_explorer/.venv/l
return function(model, *args, **kwargs)
```

```
File "/Users/jasontouleyrou/Projects/md_data_explorer/.venv/l
self._model = self._fit_model(
    ~~~~~^

    df,
    ^^^
...<12 lines>...
    fit_options=fit_options,
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
)
^
```

```
File "/Users/jasontouleyrou/Projects/md_data_explorer/.venv/l
return self._fit_model_breslow(*args, **kwargs)
~~~~~^
```

```
File "/Users/jasontouleyrou/Projects/md_data_explorer/.venv/l
model.fit(*args, **kwargs)
~~~~~^
```

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```
File "/Users/jasontouleyrou/Projects/md_data_explorer/.venv/l
```

```
return function(model, *args, **kwargs)
```

```
File "/Users/jasontouleyrou/Projects/md_data_explorer/.venv/lib/python3.8/site-packages/lstm_utils.py", line 10, in <module>
    from tensorflow.keras.layers import LSTM, Dense, Input, RepeatVector, TimeDistributedWrapper, TimeDistributedLayer
ImportError: cannot import name 'TimeDistributedWrapper' from 'tensorflow.keras.layers' (/Users/jasontouleyrou/Projects/md_data_explorer/.venv/lib/python3.8/site-packages/tensorflow/keras/layers/__init__.py)
```

X_norm,
^ ^ ^ ^ ^ ^ ^

...<6 lines>...

```
show_progress=show_progress,  
^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
```

$$\begin{matrix}) \\ \wedge \end{matrix}$$

```
File "/Users/jasontouleyrou/Projects/md_data_explorer/.venv/lib/python3.10/site-packages/scipy/optimize/_newton.py", line 100, in newton_raphson_for_elfron_mode
    beta_, ll_, hessian_ = self._newton_raphson_for_elfron_mode(x0, f, df, hess,

```

$$X_{\wedge\wedge}$$

...<6 lines>...

```
**fit_options,  
^^^^^^^^^^^^
```

 \wedge)

```
File "/Users/jasontouleyrou/Projects/md_data_explorer/.venv/lib/python3.10/site-packages/
raise exceptions.ConvergenceError(
```

...<4 lines>...

)