Age from brain Data Project presentation

Marco Accerenzi

Università di Pisa - Dipartimento di Fisica

August 14, 2024

Outline

- Introduction
- Data manipulations
- Training the model
- Optimizing the model's parameters
- Training history
- 6 Results and conclusion

Introduction to the Topic

- Regression model.
- What's Keras.
- Training.

Data manipulations

- Pandas.
- Extracting arrays and Numpy.
- Normalising the data.

Including an Image

- Learning algorithms.
- loss function and optimization.
- Callbacks:
 - EarlyStopping and patience.
 - Reducing the learning rate.

Optimizing the model's parameters

- Layers and nodes.
- Validation split.
- Shuffling the data.

Including an Image

- Learning algorithms.
- loss function and optimization.
- Callbacks:
 - EarlyStopping and patience
 - Reducing the learning rate

Results and conclusion

- Final values for the loss function and mean error.
- Evaluating new data.

Making an interface for the user

• to do