

Practical Introduction into Programming with Python

Organized by Euroleague for Life Sciences

Contents

- Recall the basics of Python.
- Numerical tasks in Python (NumPy).
- Visualisation and working with data (Matplotlib, Pandas).
- Statistical analysis (Statsmodels, Seaborn).
- Introduction to ML in Python (scikit-learn).
- Text processing and object detection with neural networks in Python.
- The course contains several workshops, where you can apply the obtained knowledge to real-life motivated tasks.

Subject Area

Digitalisation in the Life Sciences

Date

7 July - 13 July 2024

Venue

Czech University of Life Sciences Prague

More information

www.euroleague-study.org/en/python-2024

```
class AttentionDataset(Dataset):
    def __init__(self, sentences, labels,
                 self.sentences = sentences
                 self.labels = labels
                 self.tokenizer = tokenizer

    def __len__(self):
        return len(self.sentences)

    def __getitem__(self, idx):
        tokenized_input = self.tokenizer(
            sentences[idx])
        input_ids = tokenized_input['input_ids']
        attention_mask = tokenized_input['attention_mask']
        return {
            'input_ids': input_ids,
            'attention_mask': attention_mask,
            'labels': torch.tensor(labels[idx])
        }
```



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of Life Sciences Prague

