Online Education
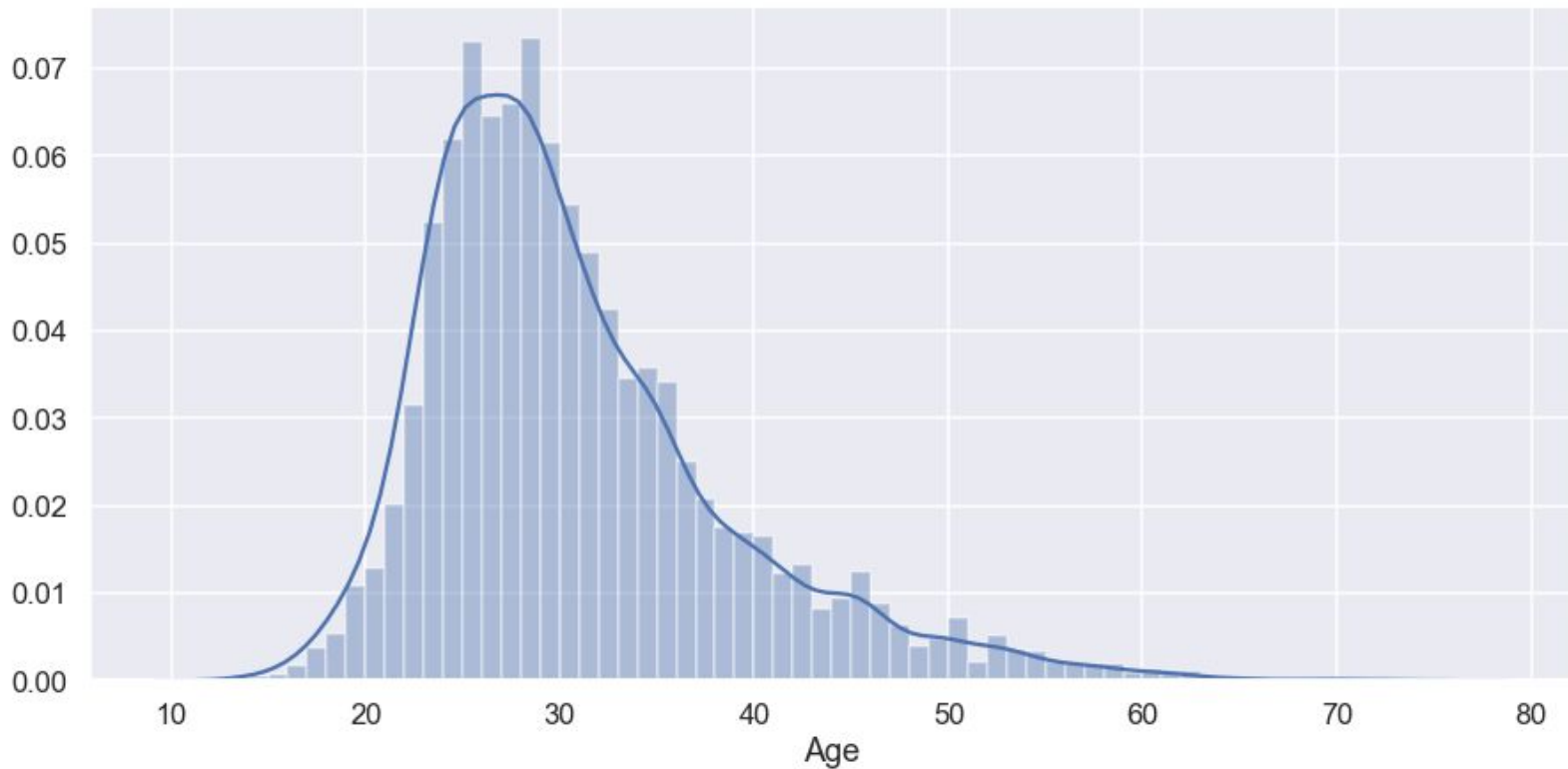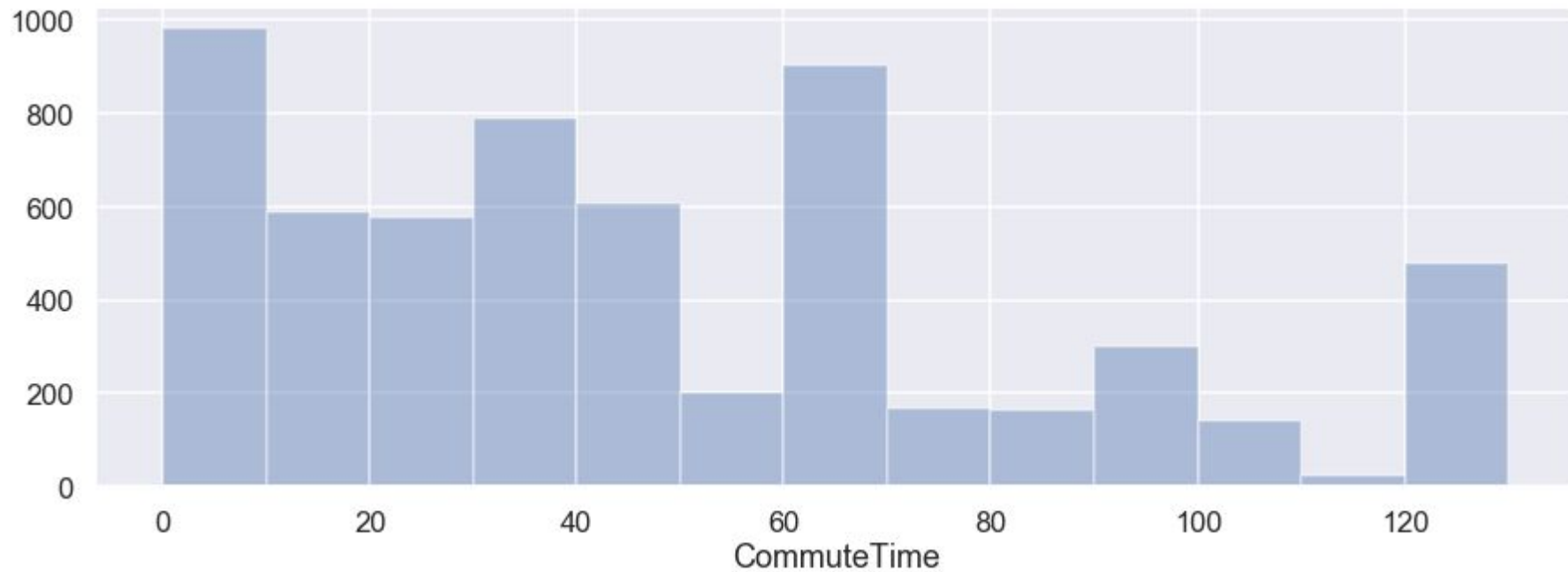
Mikhail Sladkomedov

Goals of the project

➜ **Describe the audience of learners**

➜ **Build a model predicting propensity for taking online courses**

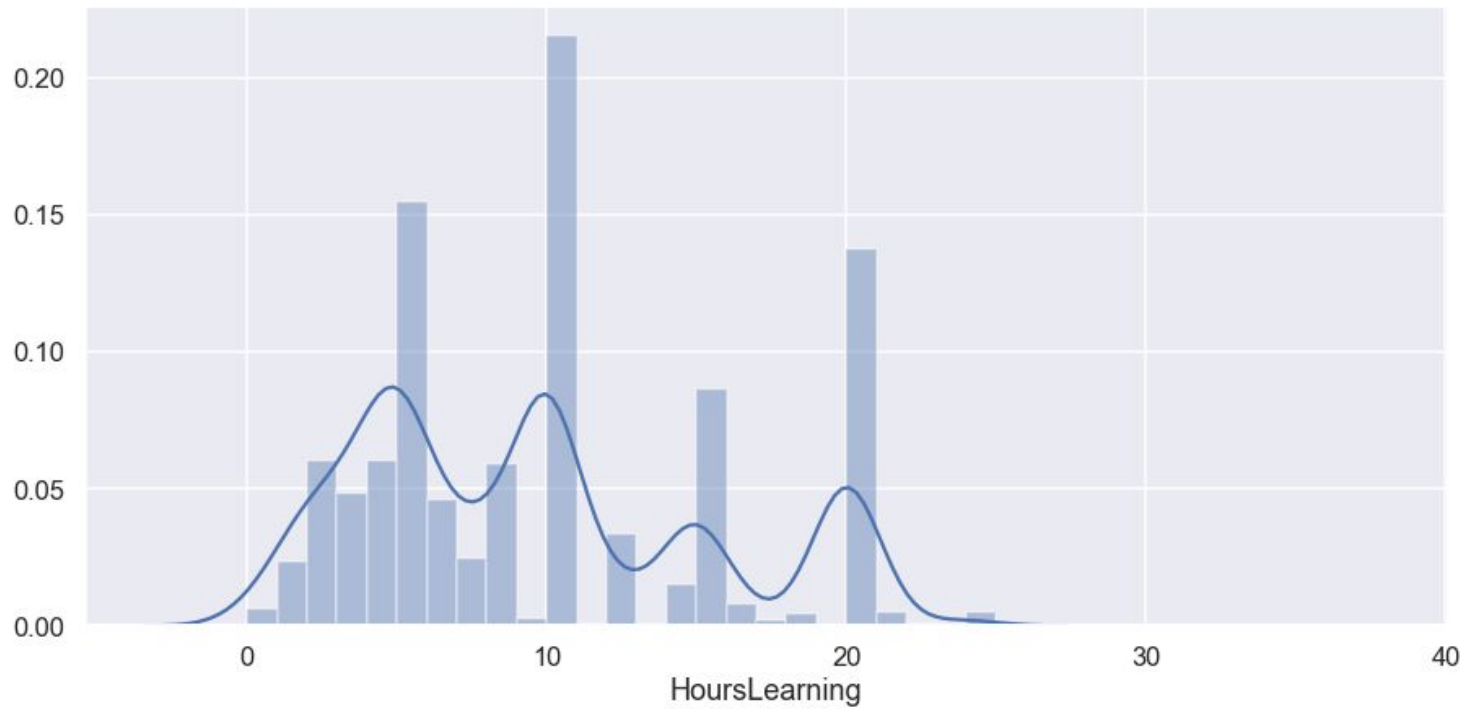➜ **Help people to have an access to education by motivating them to take online courses.**

Age of participants PDF

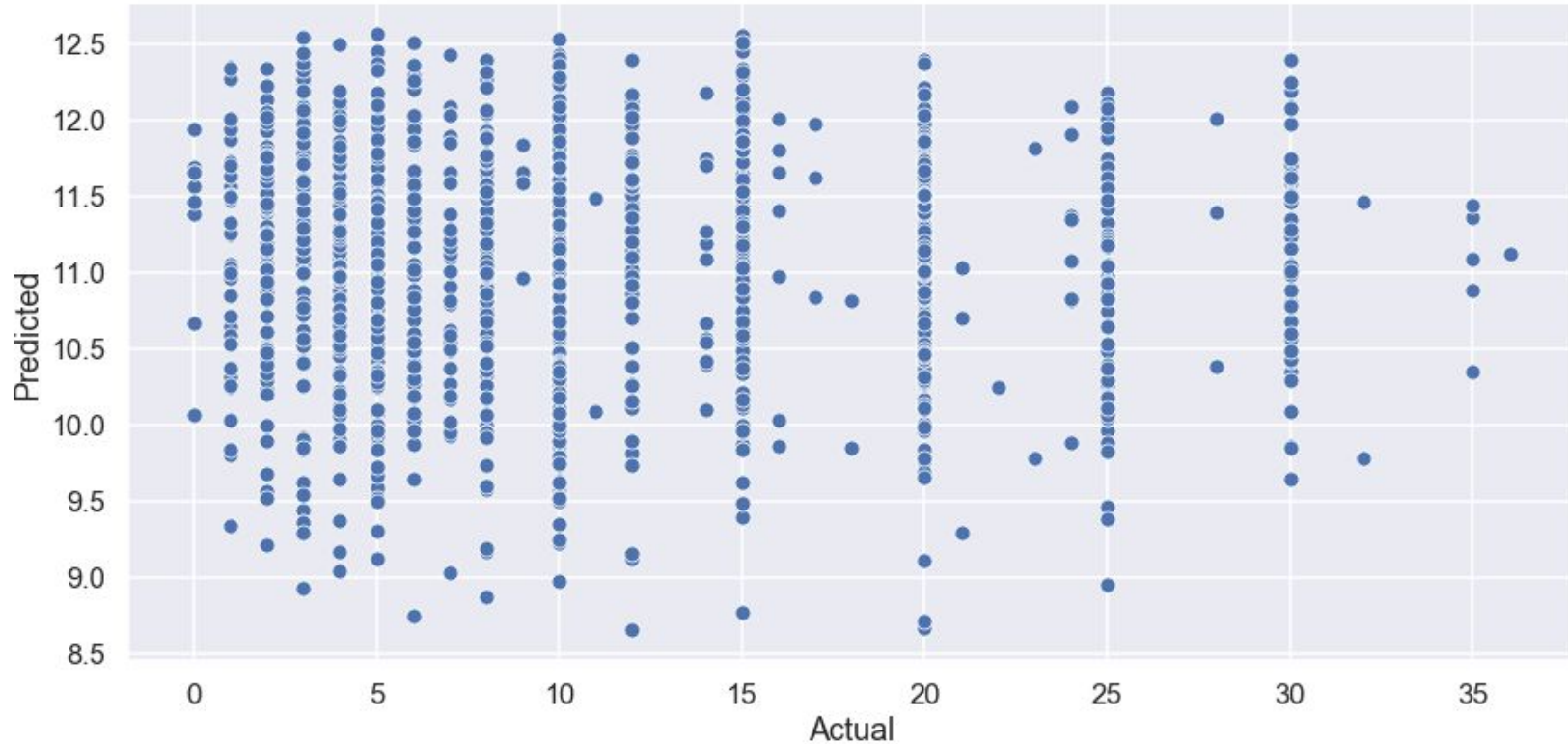# Commute time PDF

Hours of Learning per week PDF

Regressors

➜ **Age**

➜ **Commute Time**

➜ **Gender**

➜ **CityPopulation**

➜ **Income**

Outcome

➜ **Hours of Learning per week**

Linear Model - Hours of learning

Conclusions

- **Median age of learners is 27**
- **75% of learners are older than 23**
- **Median value of hours of learning per week is 10 hours**
- **Median Commute time - 40 minutes**
- **Hours spent on learning per week is almost evenly distributed throughout most of the parameters**

What was done

- Plotted 28 figures
- Preprocessed data
- Removed outliers
- Included dummy variables
- Train-test split
- Scaled input data
- Built linear model

Instruments

- **Python**
- **Sci-Kit Learn**
- **Pandas**
- **Matplotlib**
- **Seaborn**