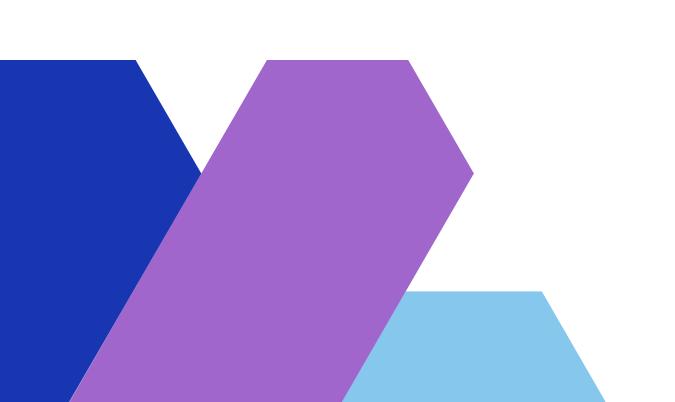


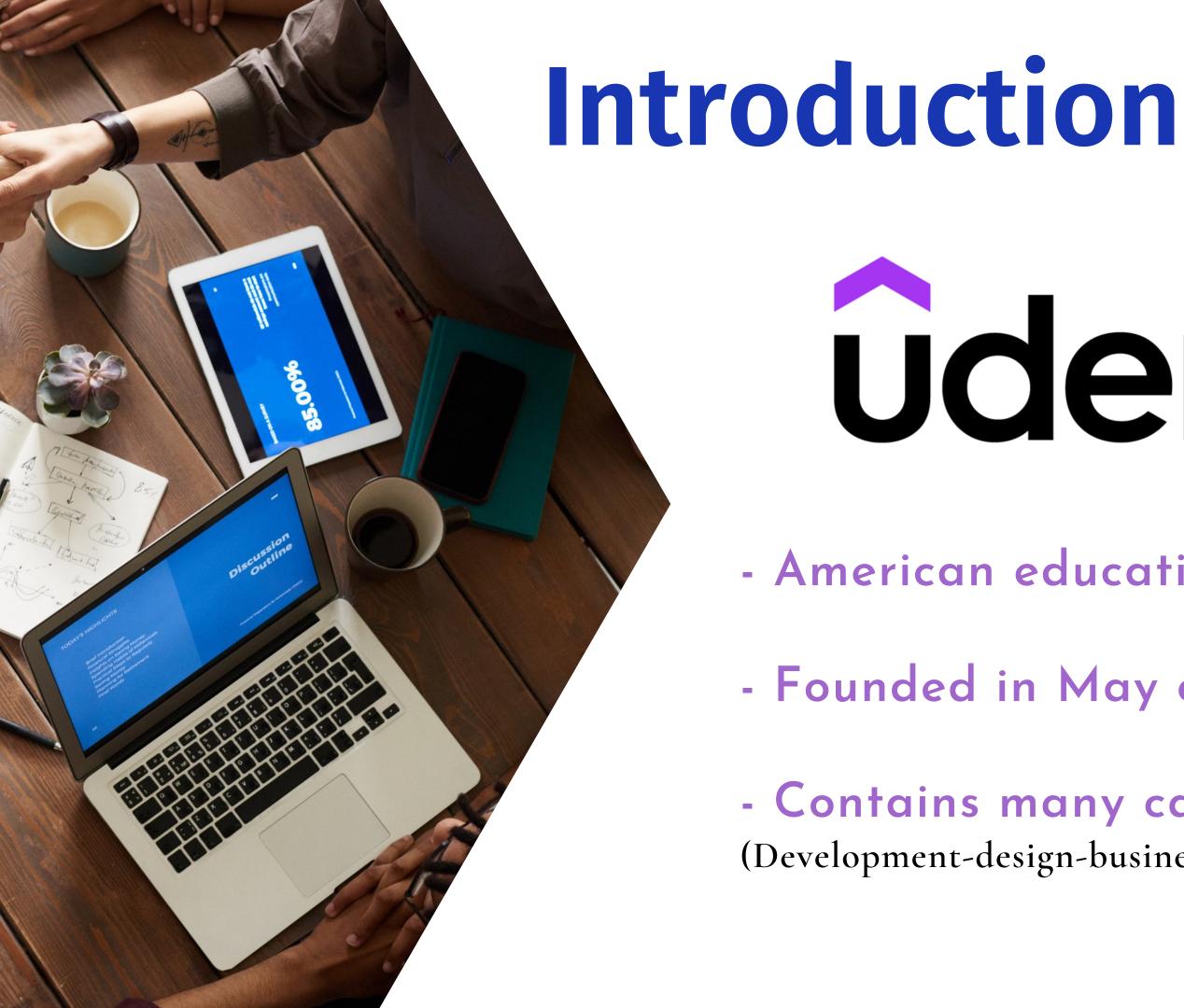
Outline

- Introduction
- Dataset
- Target
- EDA



Outline

- Data Split
- Regression Models
- Best Model
- Conclusion



idemy

- American educational platform
- Founded in May of 2010
- Contains many categorical fields

(Development-design-business-marketing-technology)



In 2021,

- 44 million students
- 183,000 courses
- 65 instructors teaching courses in 75 languages
- Over 594 million courses enrollments

Dataset



Course ID

Course Title

Enrollment

Subscribers

Reviews

Stars

Rating

Published Lectures

Course Price

Published Time

Course Discount

Category

Price Curenncy

Target

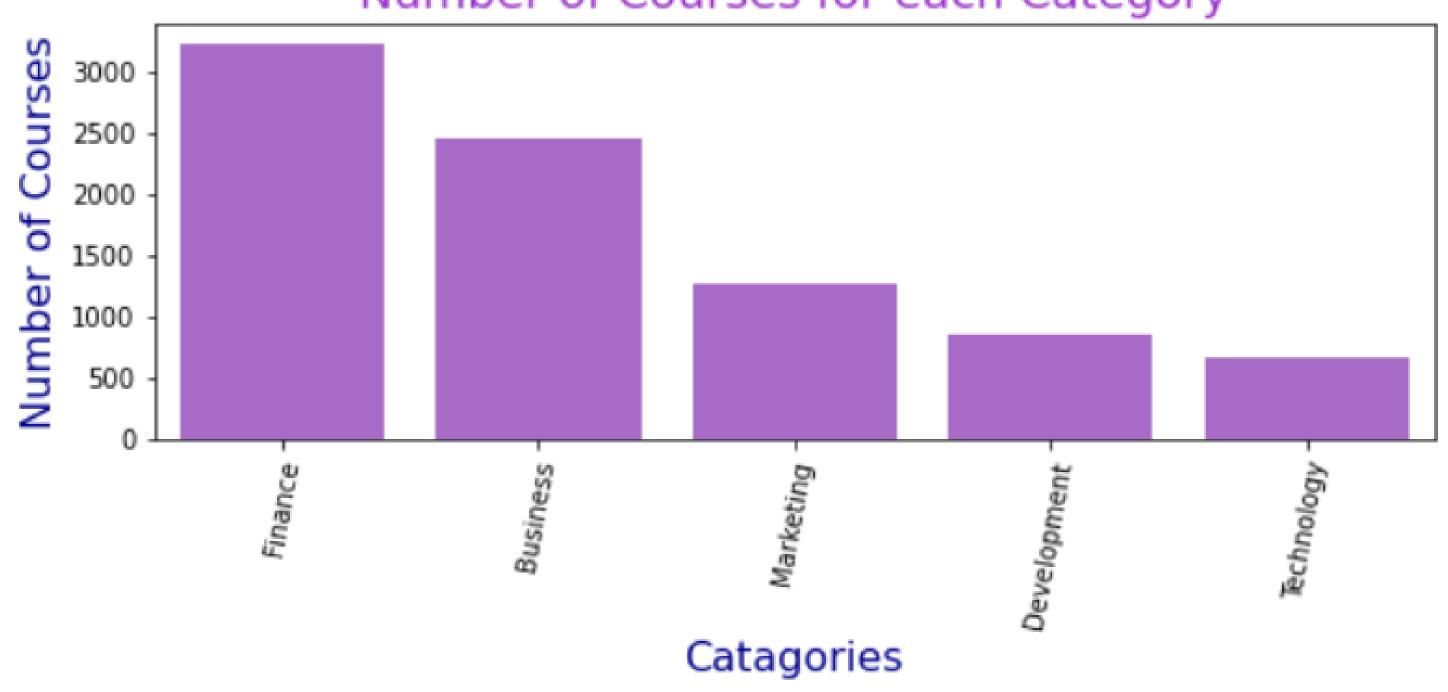


Predicting the number of people who raited each online courses

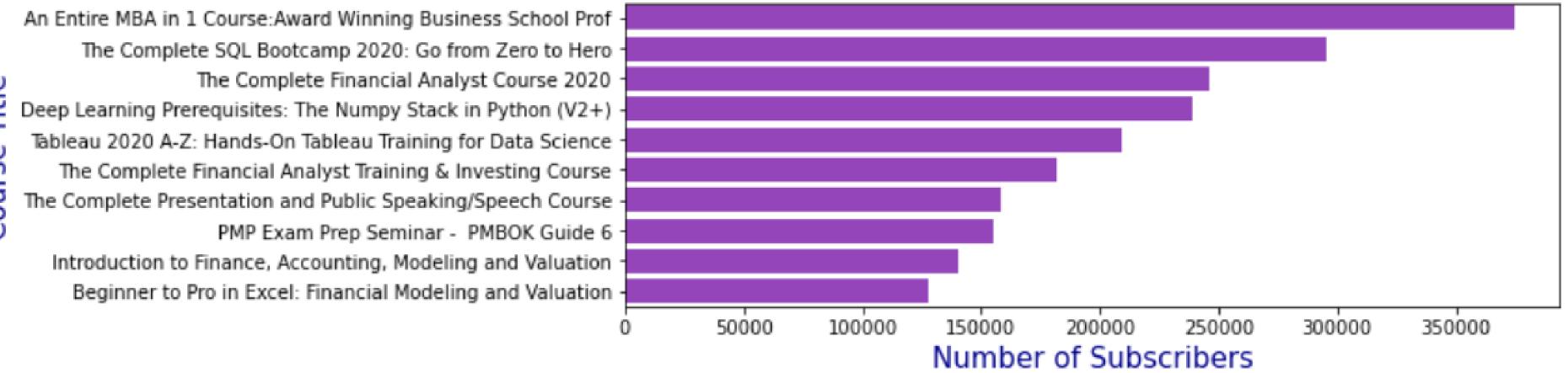
4.7 ★★★★★ (66,821 ratings)



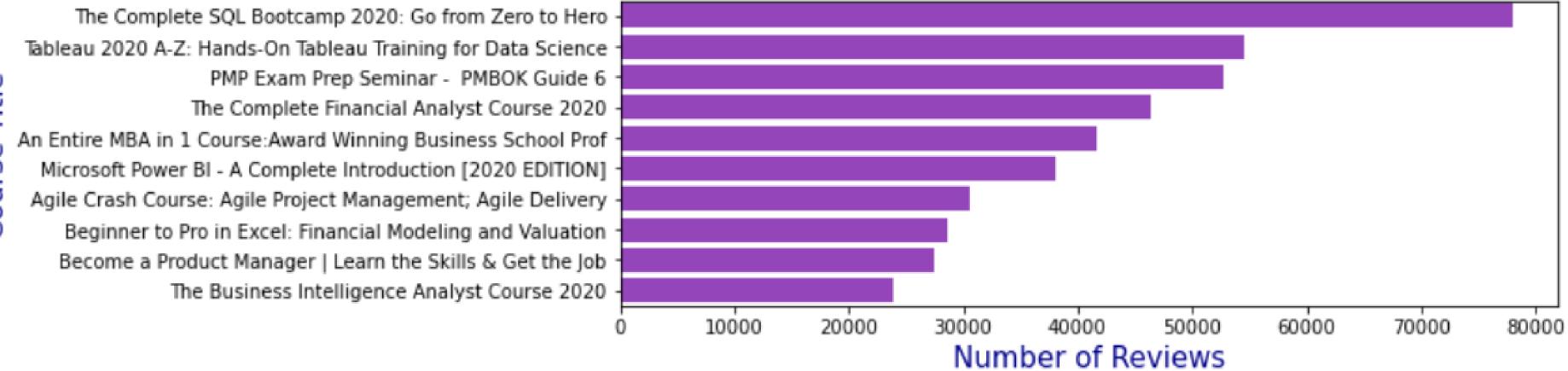
Number of Courses for each Category



The Most Popular Courses

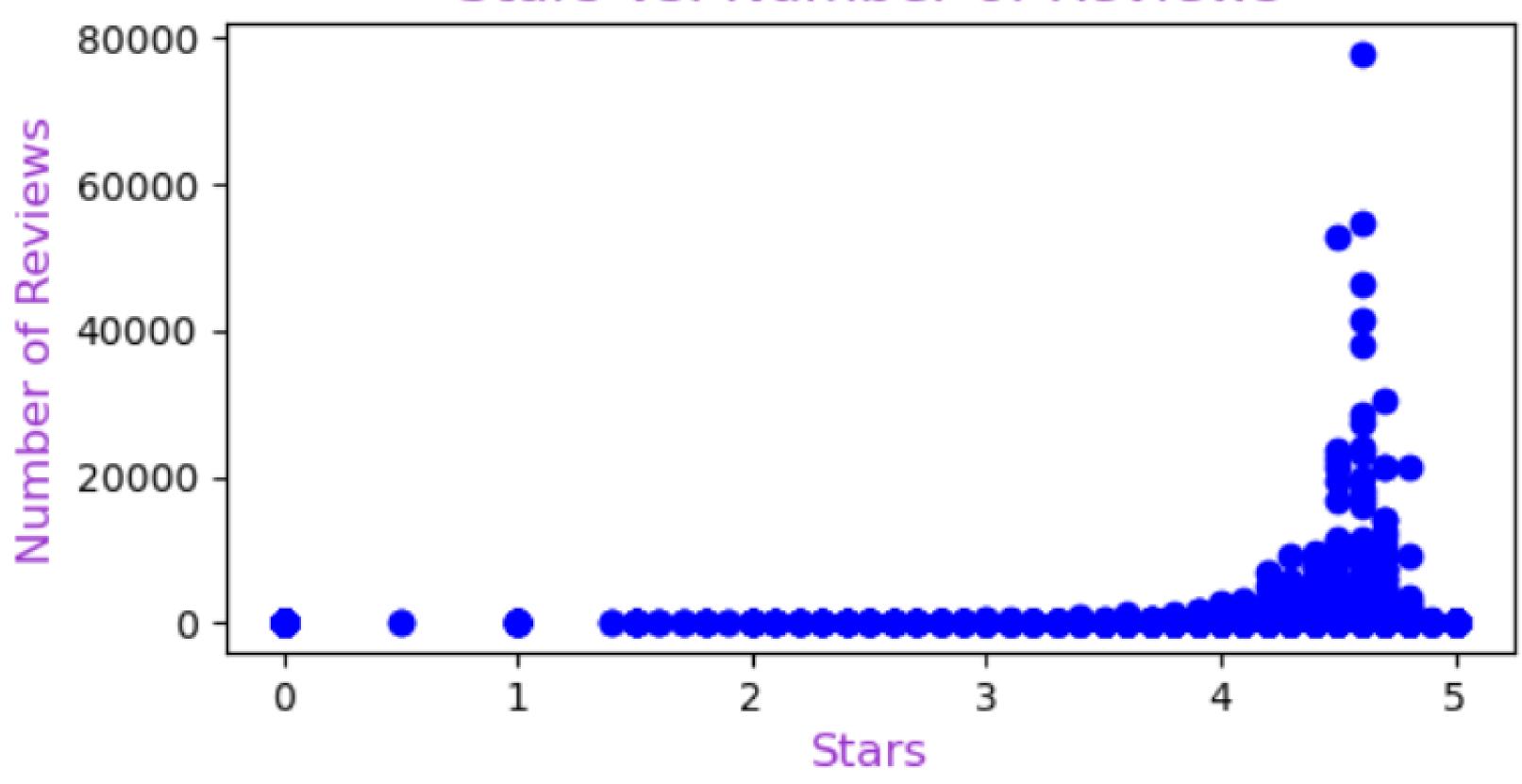


The Most Popular Courses

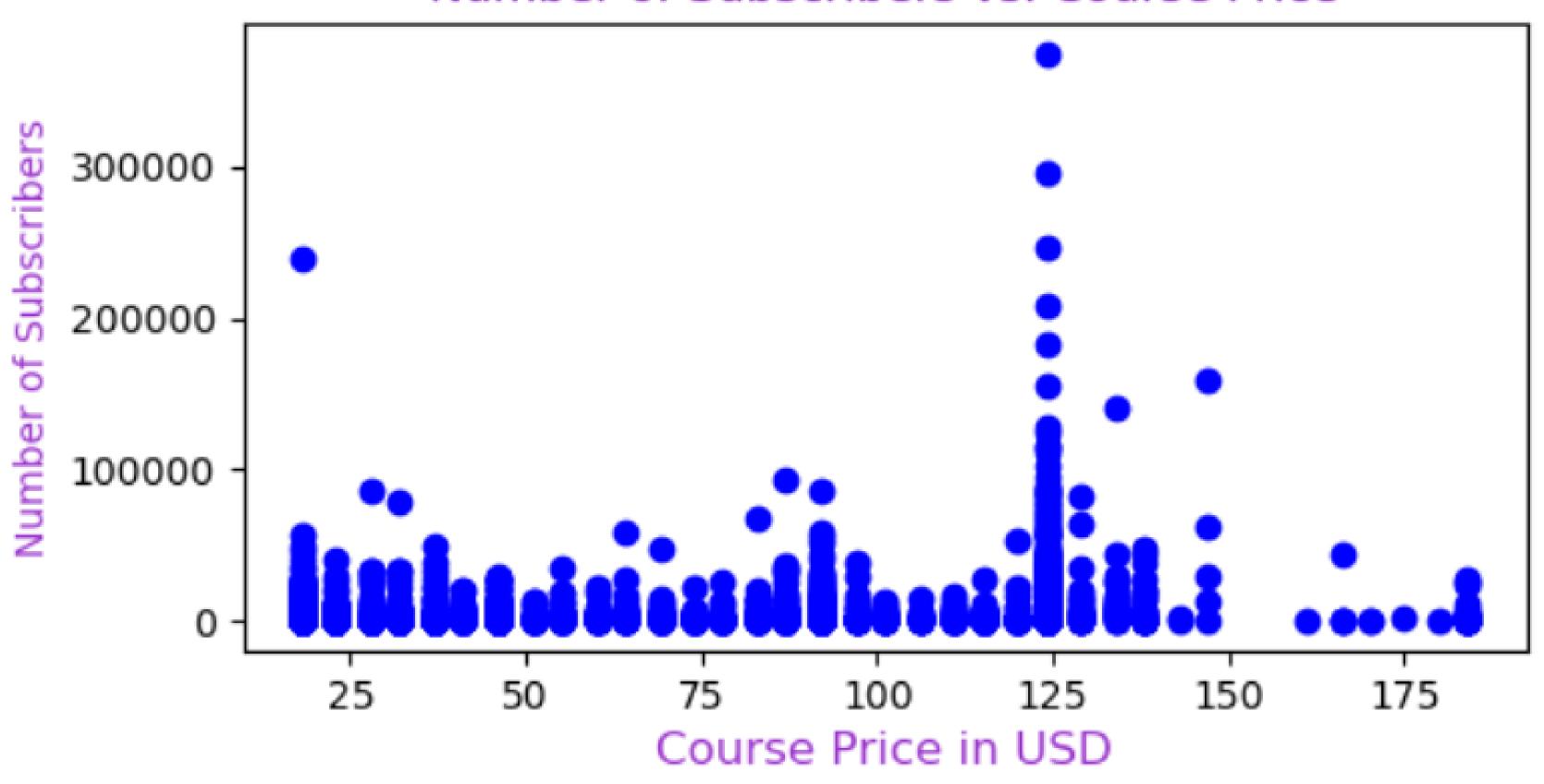


Top 5 Published Lectures

Stars vs. Number of Reviews

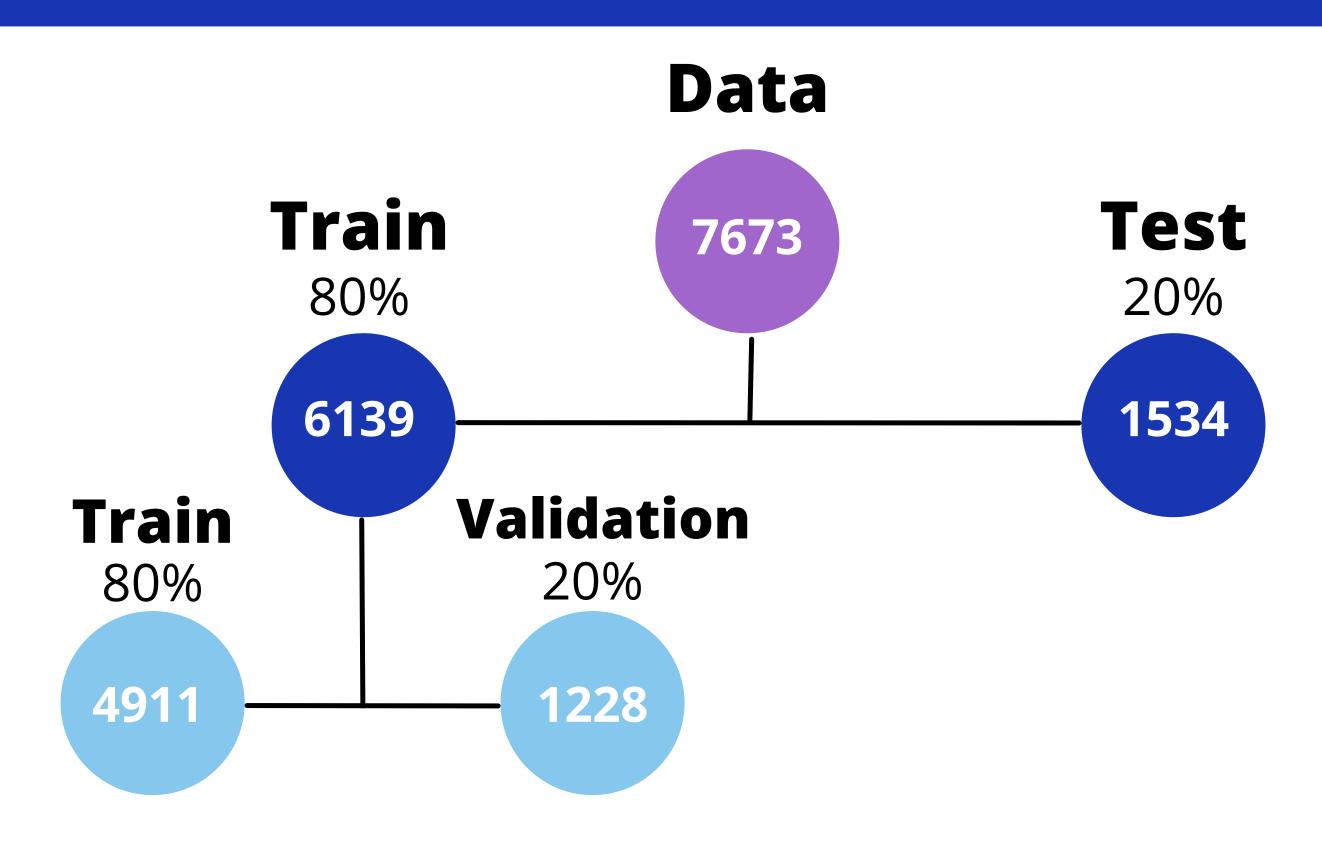


Number of Subscribers vs. Course Price



Data Split





Regression

Regression Model	Train Score	Validation Score
Baseline Model	0.827	0.833
Basic Feature Engineering (Polynomial terms)	0.847	0.948
Basic Feature Engineering (Interaction terms)	0.915	0.936
Intermediate Feature engineering (dummy variables method)	0.934	0.953

Best Model

Regression Model	Train Score	Validation Score
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Conclusion

We tried several regression models to predct the best model for our target which is Predicting the number of people who ratied each course

Best Model: feature engineering dummy variables method

Best Score



