

# Webinar Attendance:

A Data Science Project for 3D Heals

## Background

3DHeals "aims to bridge the knowledge and experience gap between 3D printing, an emerging technology, and the established healthcare and life science innovation ecosystem."

3dheals.com/about/



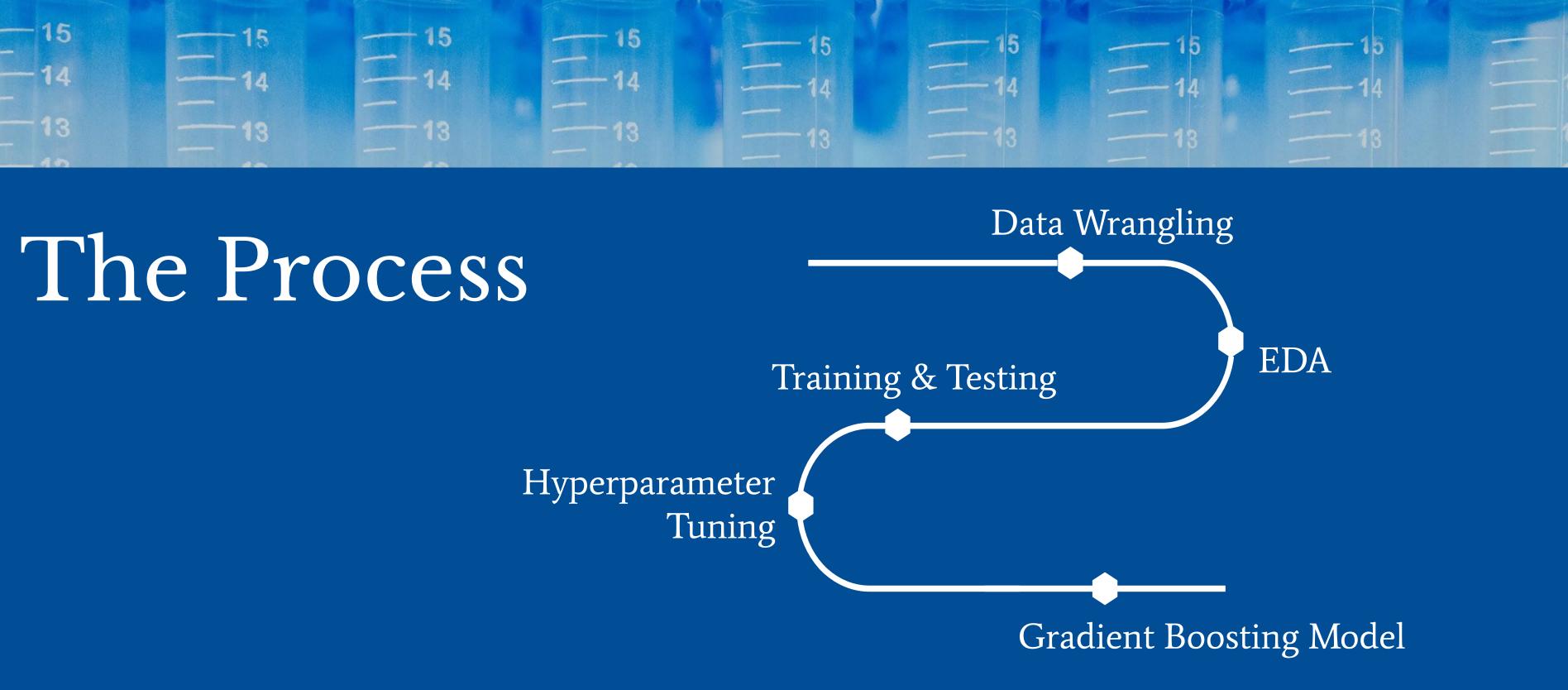
## Background

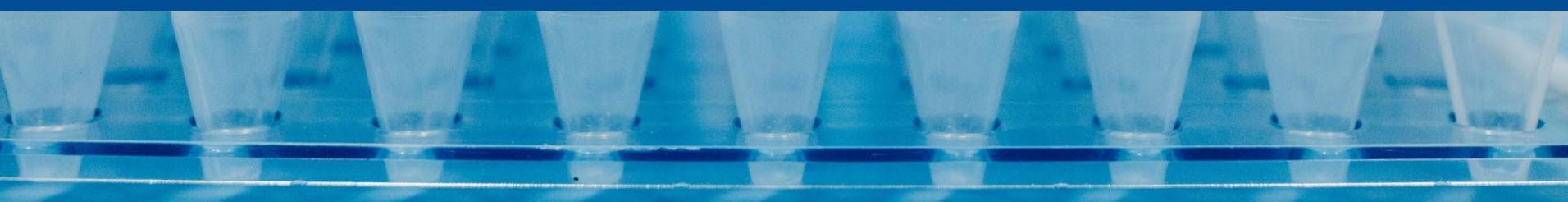
3DHeals wants to know who is joining their free webinars in order to tailor the webinars to encourage more participants, as well as more engagement during the events.



## The Project

#### **The Question The Data** The Deliverables Colab notebooks of data What can be developed that wrangling through informs 3DHeals who is The data is from Zoom of modeling, as well as this four different webinars put joining their webinars so final report and that they can increase the on by 3DHeals in 2019. presentation number of participants?





### Data Wrangling

#### We cleaned the data.



Imputing
Missing
Values



**Condensing Job Titles** 



Academic	93
C-Suite	68
Researcher	62
Manager, Director	57
Engineer	49
Clinician	22
Marketer, Salesperson	16
Designer	12
Business Developer	11
Consultant	9
Operator	2

### Data Wrangling

We created new features.



Number of Logins



Time in Session as a Percent



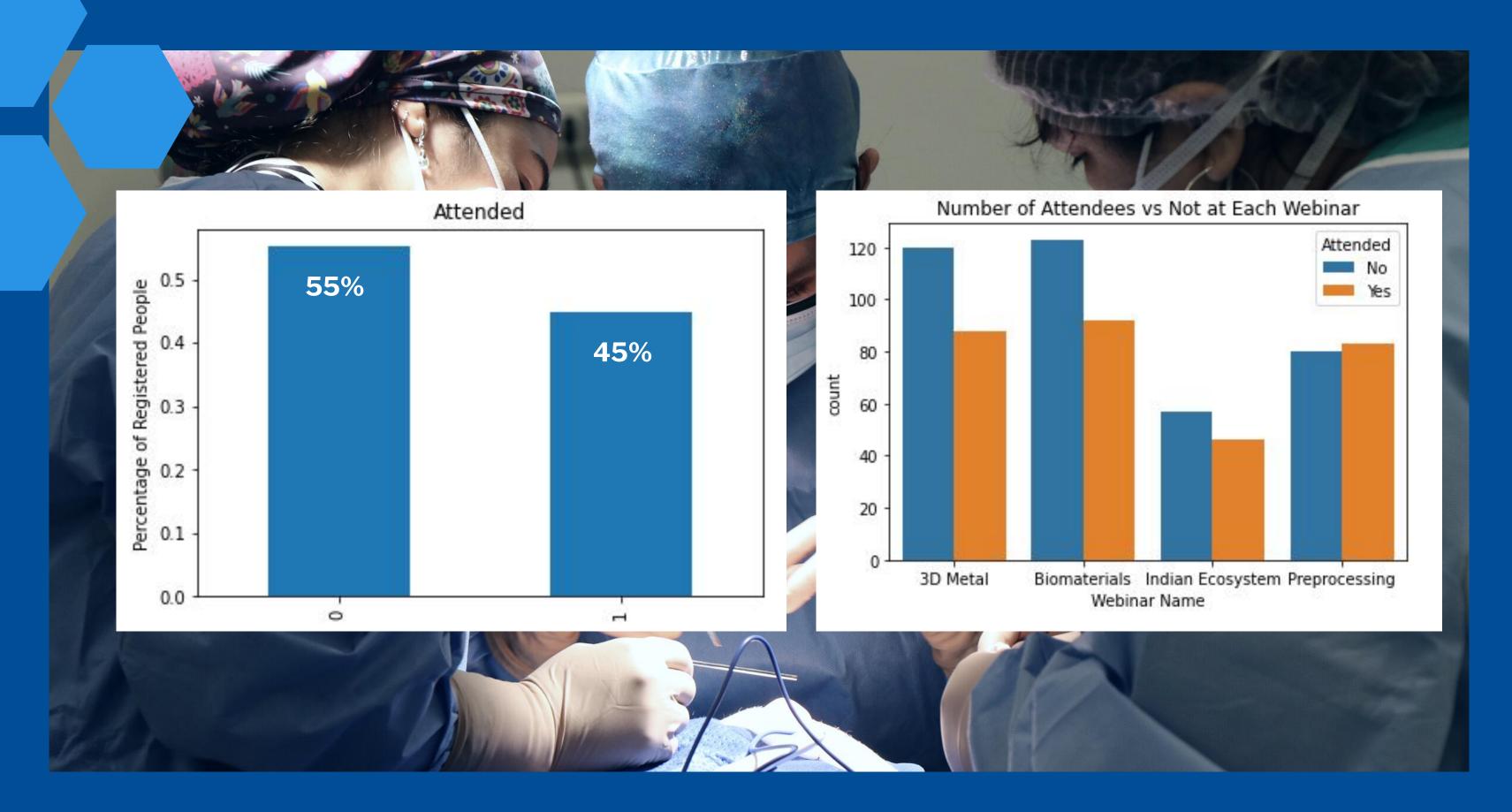
Night time logins

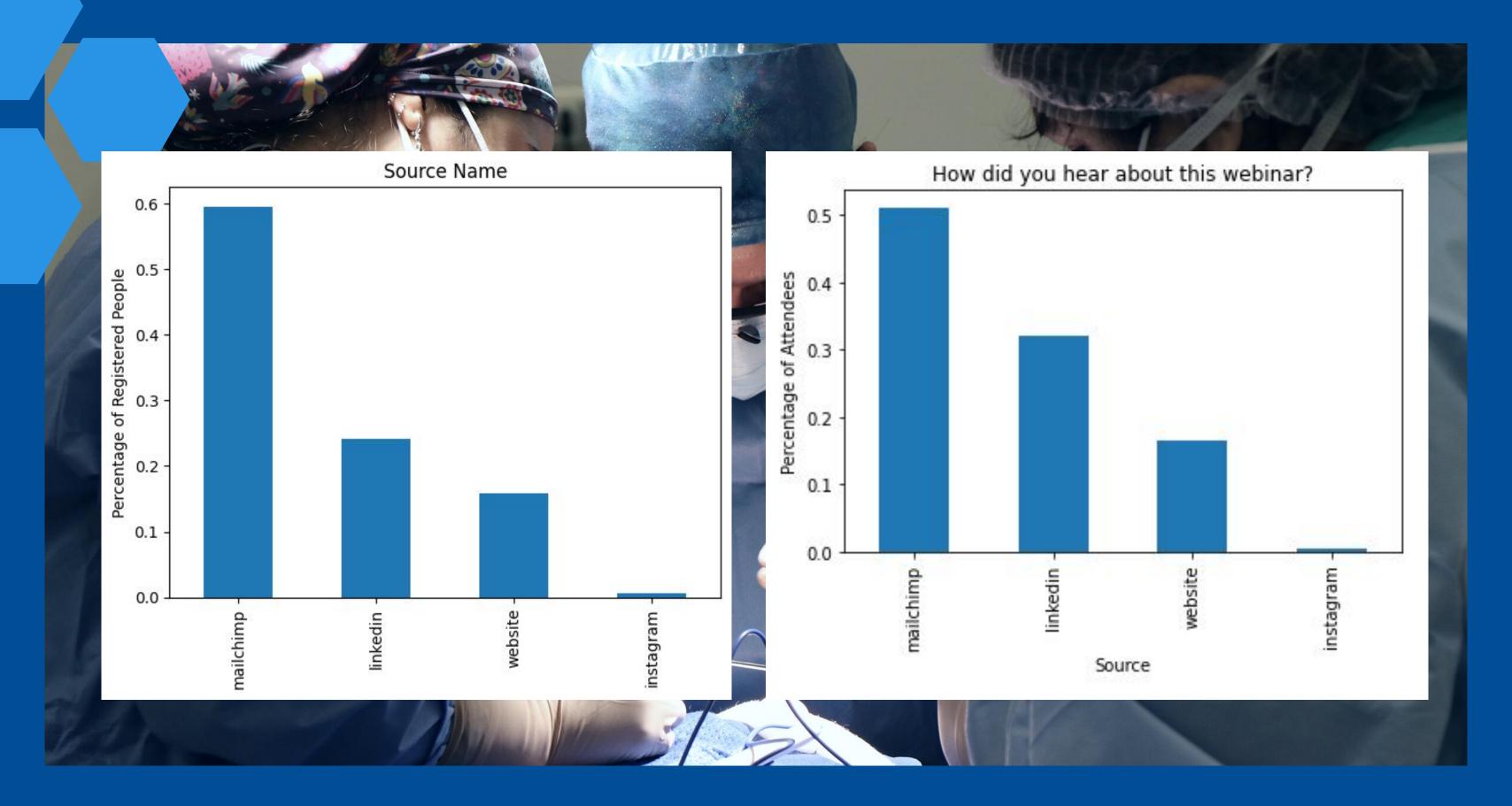


Number of Webinars Attended

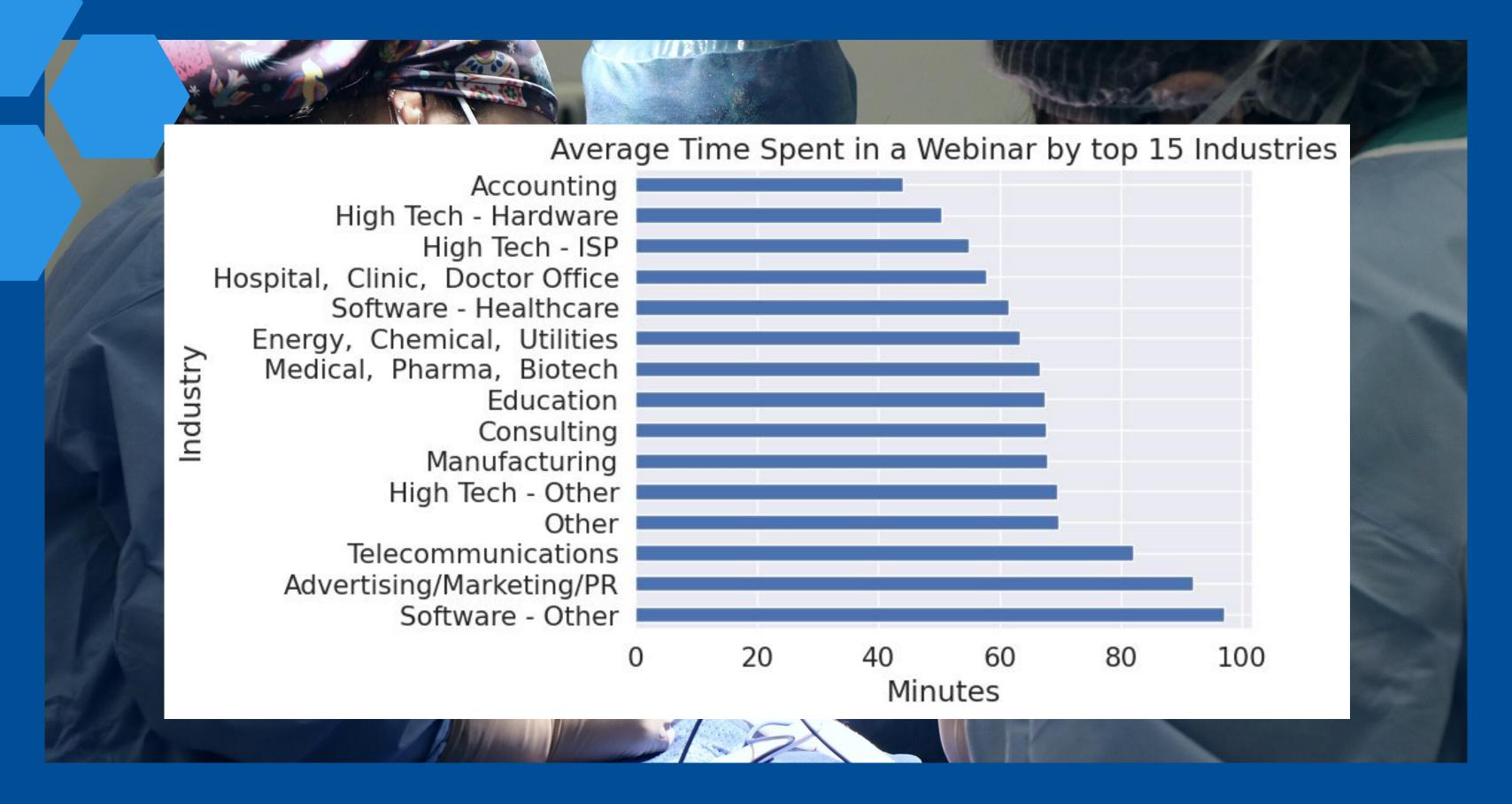


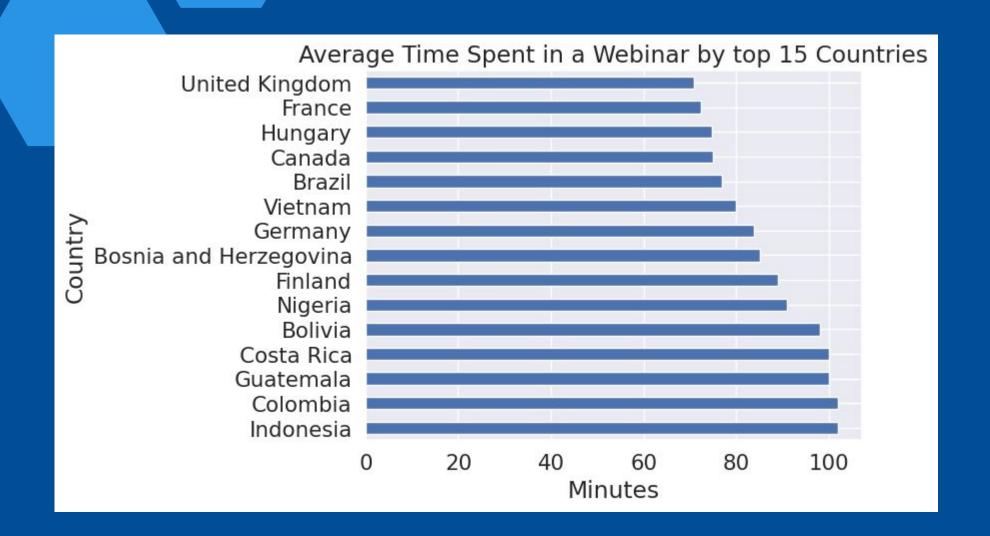
Number of Webinars Registered

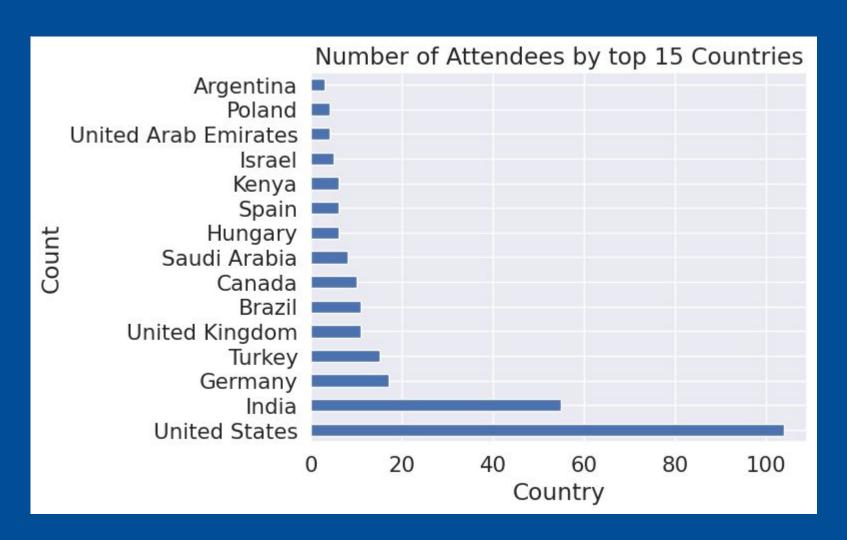












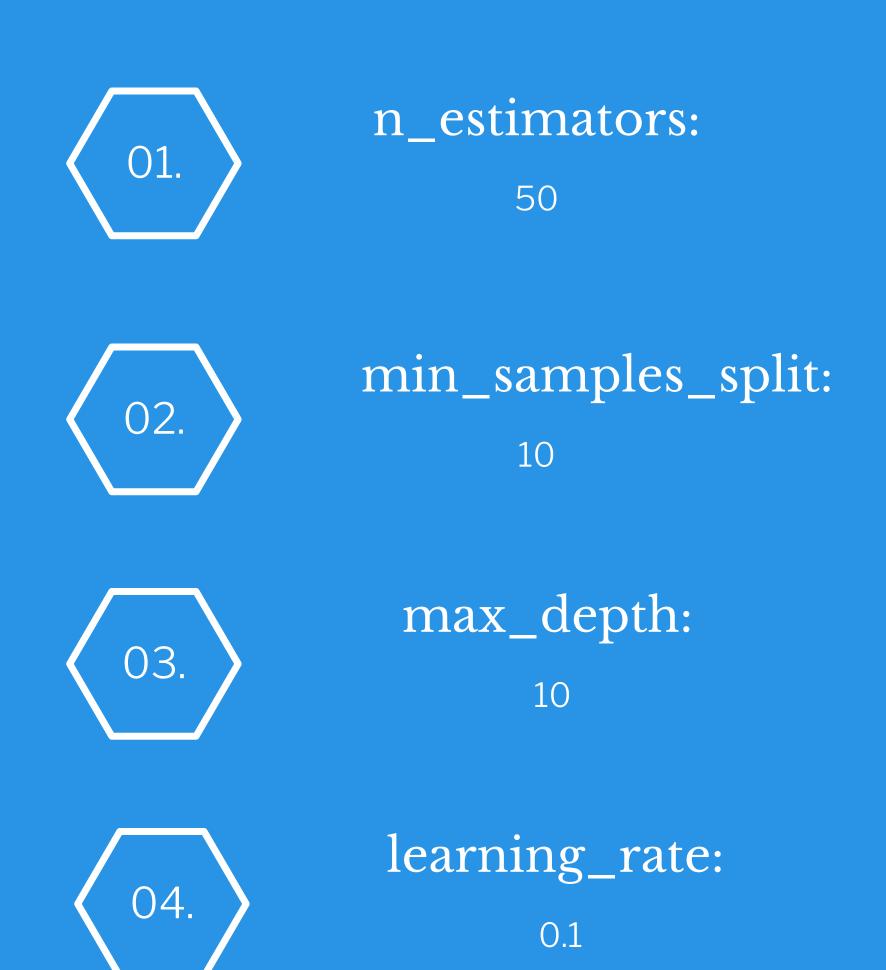


Gradient Boosting Regression Model RMSE = 0.24

time a participant will stay in the webinar (between o and 1).

After tuning, the root mean squared error (RMSE) was 0.24, which means on average our model was off by 24%.

Best
HyperParameters



## Next Steps

- Include more webinars
- Collect more information on participants
- Explore clustering
- Deploy model





## Credits

#### Thanks to the following:

- Jenny Chen
- Diana Golman
- Mentors: Mary Anne Thygesen, Kenneth
   Gil-Pasquel, Rahul Sagrolikar
- SlidesCarnival for the presentation template
- Pexels for the photos





## Thank you!

All slides, reports, notebooks, functions, and models are available for future use in our shared Google Drive folder.

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