

# Codeup Curriculum Visits By The Numbers

Thursday, August 25th 2022 GitHub\_Anomaly\_Repo

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## **Project Goal**

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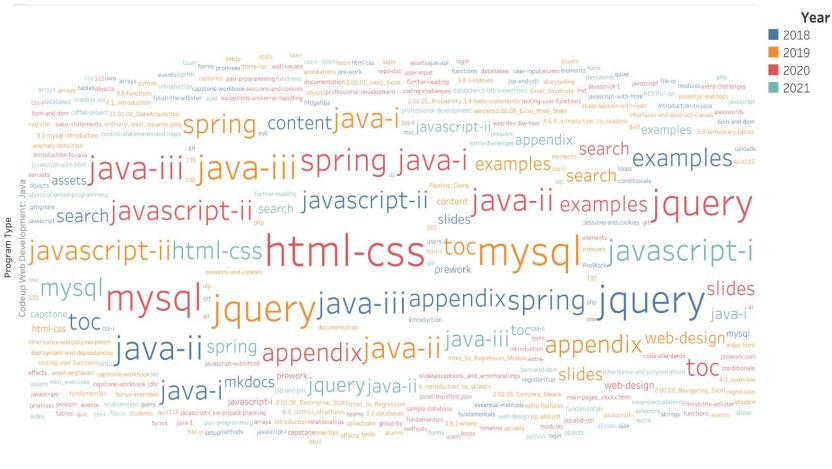
The goal of this analysis was to study online curriculum trends and potential suspicious activity. For this study, we use anomaly detection techniques on a Codeup LLC curriculum log and IP address dataset of ~1mil records. Post analysis, we provide insights for Codeup's strategic lesson planning and make recommendations to mitigate suspicious online behavior.

# **Project Description**

We use a scenario-based approach to answer key question to help inform senior Codeup stakeholders on their online curriculum & platforms strategy. In the report we devise insights into the following topics:

- Most consistently visited curriculum lessons across cohorts and Codeup programs
- By program lessons/topics revisited Post-graduation by Codeup alumni
- Lessons and topics least visited/referenced by Codeup students
- Cohorts that referenced curriculum lessons/topics more than others across their programs
- Information on specific Users/Students who while attending Codeup, rarely accessed curriculum lessons
- Potential suspicious activity amongst users, networks/computers, or otherwise





Program Type



Year 2020 2021

```
ds_regressiondatabase-design
       ds_storytelling ds_classification
   {\sf ds\_distributed-ml}_{\sf ds\_timeseries} {\sf ds\_anomaly-detection}_{\sf capstones} {\sf ds\_clustering}_{\sf prep\ classical\_programming\_vs\_machine\_learning\_jpeg} \\
 ds_nlpds_advanced-topics ds_fundamentals ds story
      ds_sqlds_distributed-ml ds_fundamentals
ds_appendixds_pythonds_sqlds_regression
    ds_anomaly-detection ds_python ds_nlp
                                                         ds_timeseries
         ds_stats ds_appendix_ds_clustering
                                                             search
```

### Alumni Revisits: Full Stack Java

Program Type

#### Most Visited Curriculum Lessons by Alumni Students





2021

Program Type



Year 2020 2021

```
scale_features_or_not.svg Hospital-Distance-Clusters.jpg
                                                                                                                                              ds_timeseries ds_storytelling
                                                                                                                                                                                                                                                                                 ds_advanced-topics
                                          ds_storytelling ds_classification
                                                      ds_sqlds_anomaly-detection ds_classification
   decision-trees decision-trees ds_nlpds_advanced-topics ds_fundamentals individual-project prepare A-M-M-DI-timeline.jpg selecting_a_hypothesis_test.svg ogin mysql_pataToAction_v2.jpg spring search tidy-data creating-charts in a pythonds_distributed-mlds_nlpds_timeseries in a pythonds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distributed-mlds_nlpds_distrib
ds_appendix ds_python spark-execution-diagram.svg ds_regression
                 ds_statsds_fundamentals
                                                                                                                                                                                                                                                                                                                    ds_anomaly-detection
                                                                                                                                                                                                                                                                                                     ds_clustering
                                                                                                                                                                         ds_clustering
```

#### **Data Science Cohorts** Most Visited Modules of All Time <sub>o</sub> Darden Class ds-classification Bayes ds-fundamentals S Curie Easley ds-python ds-regression Florence 0K 1K 2K 3K 5K 6K 7K 8K 9K 10K 11K 12K 13K 14K Number of Visits **Full Stack Java Cohorts** Most Visited Modules of All Time Class Ceres html-css ® Zion java-iii Fortuna javascript-i Jupiter javascript-ii Voyageurs mysql 21K 22K Number of Visits Full Stack PHP Cohorts Most Visited Modules of All Time Arches Class html-css Lassen java-iii Olympic javascript-i Hampton javascript-ii Glacier Quincy Kings mysql Kings Ike Franklin Joshua Badlands

2200 2400 2600

Number of Visits

2800 3000 3200 3400 3600 3800 4000 4200 4400 4600

1000 1200 1400 1600 1800 2000

600