First Year Exam: Question 15

Rachel Weinstein (A11836450)

7/8/2022

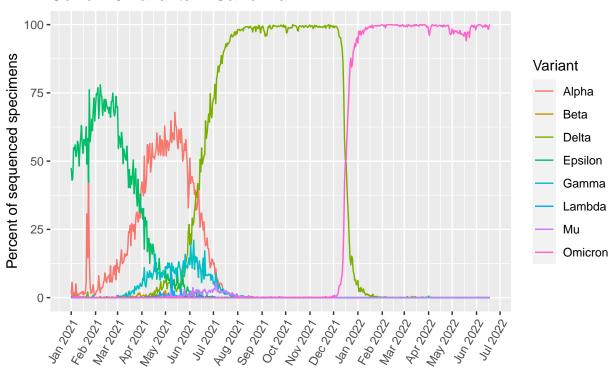
```
# Load necessary packages
library(dplyr)
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##
       filter, lag
## The following objects are masked from 'package:base':
##
       intersect, setdiff, setequal, union
library(lubridate)
## Attaching package: 'lubridate'
## The following objects are masked from 'package:base':
##
##
       date, intersect, setdiff, union
library(ggplot2)
# Import the data
data <- read.csv("covid19_variants.csv")</pre>
# Filter out 'Other' and 'Total' from variants
clean_data <- filter(data, variant_name != "Other", variant_name != "Total")</pre>
# Change name of column "variant_name" to "Variant" (an aesthetic change for the final figure)
clean_data <- rename(clean_data, Variant = variant_name)</pre>
```

```
# Make data lubridate compatible
clean_data$date <- ymd(clean_data$date)</pre>
```

```
# Plot the data

ggplot(clean_data, aes(date, percentage, color = Variant))+
  geom_line()+
  scale_x_date(date_breaks = "1 month", date_labels = "%b %Y")+
  theme(axis.text.x=element_text(angle=60, hjust=1))+
  labs(x = "", y = "Percent of sequenced specimens", title = "Covid-19 Variants in California", caption
```

Covid-19 Variants in California



Data Source: https://www.cdph.ca.gov/>