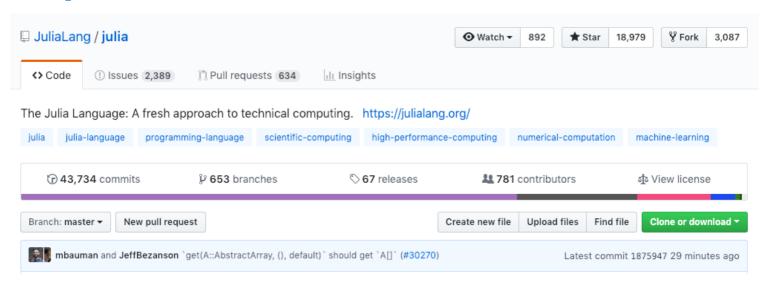
### Basic ML with Julia and Azure

# **Getting Ready**

- Julia installation
- Anaconda and Julia kernel installation
- Azure student offer

#### What is Julia?

- High performance dynamically typed language
- WAY faster than python (almost as fast as C)
- Designed for concurrent, parallel, and distributed computing
- Can directly call C libraries
- Open source!!!



# Why Julia?

- Lots of easy to use libraries
- It's basically executable math

```
julia> area(r) = π * r^2
area (generic function with 1 method)

julia> area(3)
28.274333882308138
```

# Time to try it out

# Moving to the Cloud

## Moving to the Cloud

#### Why?

- Don't have to have your computer on 24/7
- MORE POWER

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#### Which Service?

- AWS, Google Cloud, and Azure should all work fine
  - All should give you free credits to start too!
- Azure has a data science image with everything we need already installed

## To the Cloud!