

2017 DATATHON

sponsored by The Lally School of Management and the Rensselaer
Institute for Data Exploration and Applications (IDEA)

Saturday, March 25, 2017 - 9a-5p
Sunday, March 26, 2017 - noon-5p

Register to

Explore, Discover and Present

student teams (3-4 students per team) interested in analytics and/or machine learning are invited to
participate

WIN CASH PRIZES

Overall first place: \$1,500 per team

Best data insights: \$1,000 per team

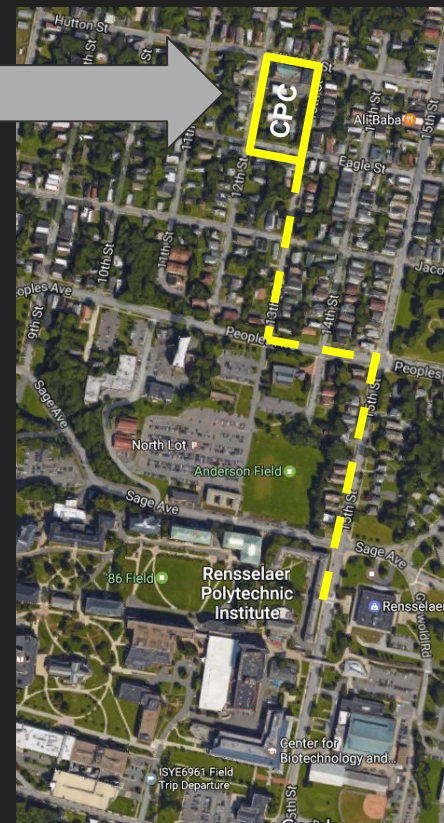
Best business insights: \$1,000 per team

Honorary mentions: \$500 per team





- Physical location:
**Center of Purposeful Creation
Creative Studios (2nd Floor)**
(Corner of Hutton & 13th Street)
2247 13th Street, Troy, NY 12180
- **Parking:** There is lot, but limited space
- **Competition:** 9:00a Sat - 1:00p Sun
- **Judging:** 1p-4p Sunday
- Building open:
 - 8a-5p Sat/Sun
 - 100MB WiFi
- Food/snacks be will available





- About the data:
 - 2016 "Area Health Resource File"
- Data Access:
 - Normally in SAS format :(
 - Available as an R package via github
 - From R or RStudio:

```
> library(devtools)
> install_github("olyerickson/ahrf2016r")
> library(ahrf2016r)
> data(list="ahrf_county_train")
> str(get("ahrf_county_train"))
> data(list="ahrf_county_layout")
> str(get("ahrf_county_layout"))
> View(ahrf_county_train)
> View(ahrf_county_layout)
```

Area Health Resources Files



The Area Health Resources Files (AHRF) data are designed to be used by planners, policymakers, researchers, and others interested in the nation's health care delivery system and factors that may impact health status and health care in the United States. The AHRF data includes county, state, and national-level files in eight broad areas: Health Care Professions, Health Facilities, Population Characteristics, Economics, Health Professions Training, Hospital Utilization, Hospital Expenditures, and Environment. The AHRF data are obtained from more than 50 sources.

The HRSA Data Warehouse (HDW) allows users to interact with data in charts, tables/reports, maps, and tools. Visit the [Data Sources](#) page for information about where the AHRF data is available in the HRSA Data Warehouse.

Data

The AHRF has county, state, and national level files from the HRSA Bureau of Health Workforce available for download. See the [AHRF Data Download page](#) for complete information about the files.

includes more comprehensive historical data.

For training
your models!

This is your "map"
to understanding!

For more information:
<https://datawarehouse.hrsa.gov/>



- About the data:
 - 2016 "Area Health Resource File"
- Data Access:
 - Normally in SAS format :(
 - Available as an R package via github
 - From R or RStudio:
 - :
 - Or, via git:

```
$ git clone https://github.com/olyerickson/ahrf2016r.git
```

```
$ cd arhf2016/data
```

```
Look for the *.rda files (direct load in R)
```

```
$ cd arhf2016/metadata
```

```
Look for the data dictionary!
```

```
ahrf_county_layout.rda
```

```
ahrf_county_train.rda
```

```
ahrf_state.rda
```

```
ahrf_state_layout.rda
```



Enter Keywords

SEARCH

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- Judging Criteria!
 - Model quality scores
 - Subjective evaluations:
 - Accuracy/validity of target variables
 - Model
 - Communication of results
 - Presentation
 - Bonus point: Judges' discretion
- Judging Process: "Parallel processing"
 - Four teams of judges in separate rooms
- **THE BUSINESS CASE WILL BE PRESENTED 9A SATURDAY!**

