```
In [ ]: # Installing covidcast
        !pip install covidcast
In [ ]: | from datetime import date
        import covidcast
```

For the ground-truth number of daily Covid cases (labels), use the confirmed incidence num signal from

```
the Indicator Combination source:
   In [88]: #By CA county, daily freq
            sDate = date(2020, 5, 1)
            eDate = date(2021, 10, 31)
            counties = ['0'+str(x)  for x in range(6001,6120)]
            labels = covidcast.signal('indicator-combination', 'confirmed_incidence_num',
            sDate, eDate, geo type = 'county', geo values=counties)
   In [89]: labels.set_index(['geo_value','time_value'], inplace = True)
            labels['label'] = labels['value']
    In [ ]: #By CA county, daily freq
            features = [('google-symptoms', 'anosmia_raw_search'),('google-symptoms', 'age
            usia raw search'),
                         ('hospital-admissions', 'smoothed covid19 from claims'),('doctor-v
            isits','smoothed_cli'),
                         ('chng', 'smoothed outpatient covid')]
            for i,f in enumerate(features):
              print(f)
              globals()[f'feature{i}'] = covidcast.signal(f[0], f[1], sDate, eDate, geo_ty
            pe = 'county', geo_values=counties).set_index(['geo_value','time_value'])[['si
            gnal','value']]
  In [103]:
            import pandas as pd
            featureset = [globals()[f'feature{i}'] for i in range(5)]
            featureset += [pd.DataFrame(labels['label'])]
            df = pd.concat(featureset, axis=1, join="outer")
            a = list(df.columns)
            for i,x in enumerate(df.iloc[1,]):
              if '_' in str(x):
                a[i+1] = x
            df.columns = a
            df.drop('signal',axis=1, inplace=True)
            df.fillna(method="ffill",inplace=True)
            # data not available for all counties and times, so the NAs are replaced using
            the forward-fill methodology (default to day before)
             df.to csv('TrainingData.csv')
```