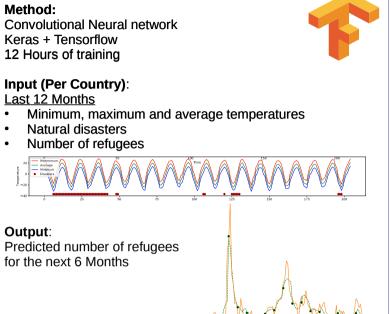
It's Raining Men

Can we predict migration waves using weather and natural distaster data?



Data Sources:

- Global Weather:
 - NOAA National Oceanic and Atmospheric Administration (US)
- Natural Disasters:
 - EM-DAT Emergency Event Database by the Centre for Research on the Epidemiology of Disasters (WHO, Belgium)
- Refugees
 - UNHCR The UN Refugee Agency

Is it really the weather data?

In order to make sure that the weather data do help in predicting the numbers of refugees, another model was trained with refugee numbers only, given the values for the last 12 months and predicting the number of refugees for the next 6 months

Results:

Mean Squared Error

- with weather data: 2.0*10⁻⁴
- without weather data: 2.8*10-4

Example, Brasil (1998 - 2016):

