# Global Education Level Distribution and Prediction

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## Data Source

https://ghdx.healthdata.org/record/ihme-data/global-educational-attainment-1970-2015
*Global Educational Attainment 1970-2015* provided by *Institute for Health Metrics and Evaluation (IHME)*

## Introduction & Highlight

- Using data from a global analysis of educational attainment spanning the last 50 years

- Including data of years in school of people over the age of 15 by year, sex, and age group as an indicator of education level

- Interested in global education level distribution and classification among country, age group, sex and year

- Predicting the trend of global education level for the next five years

## Methods

- Principal Component Analysis (PCA) for dimension reduction

- Spectral Clustering for classification

- Dynamic Mode Decomposition (DMD) for prediction