Birthrate prediction model

Introduction

- **This project aims to predict London boroughs GFR (general fertility rate) based on data from various sources, including Foursquare location data.**

- **This is a proof-of-concept, estimating GFR based on publicly available data.**

- **This can be of interest to social science researchers who investigate the impact of POIs availability on the fertility rate, or to city planners, etc..**

Data

- **Wikipedia - List of areas of London - Table of neighborhoods in London, the borough(s) they belong to.**

- **Wikipedia - List of London boroughs - Table of boroughs, their area and population and co-ordinates.**

- **Python geopy Nominatum - to identify the co-ordinates of each London neighborhood.**

- **Foursquare API – location data - POI (Point Of Interest) categories rates for each neighborhood.**

- **London Datastore - Births and Fertility Rates, Borough – Live births by local authority of usual residence of mother, General Fertility Rates and Total Fertility Rates.**

- **London Datastore - The Economics of London's Housing Market – average house prices per borough.**