

# ECE 225 Project Proposal

Title: Demographic Analysis of Socio Economical parameters

## Problem Motivation

How is GDP associated with the distribution of occupation within the country?

Relation of educational parameters and literacy rates with GDP per capita?

Is there any relation between rate of change of GDP per capita with fuel consumption per capita?

## Datasets

Area	Description	Link
GDP	Year-wise GDP for each country	<a href="#">[1]</a>
Population	Population Year-wise Data with demographics (gender-distributions/age-distribution)	<a href="#">[1]</a>
Energy Consumption	Year-on-year change in global CO2 emissions	<a href="#">[1]</a> <a href="#">[2]</a>
Occupation	Employed population by status in employment, occupation and sex	<a href="#">[1]</a>

## Methodology

- Dataset filtering and feature engineering, along with aggregation of diverse sources and collation across time (longitudinally) for comparison.
- Time series plots & geographical visualizations (choropleth) and heatmaps.
- Actionable insights and conclusions from the observations and visualizations.
- Regression analysis.

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