**DATS 6101**

**INTRODUCTION TO DATA SCIENCE**

***Dr. Darcy Morris***

*Project Proposal on*

**An Analysis of Food Security in USA - 2021**

*By*,

**TEAM II**

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**Research Proposal**

* **RESEARCH TOPIC**

Our team’s research topic is the situation of food security in 2021. We want to know how different demographic and socioeconomic factors relate to food security. We also hope to investigate food security longitudinally, including but not limited to the implications of COVID, inflation and economic uncertainty, if time and knowledge permit.

* **SMART Questions**
* **Specific**: To study the specific pattern shown in the data that affects food security such as states, counties, income level, whether the family uses SNAP, race, immigrant status, work status, education level and many more demographic, socio-economic variables.
* **Measurable**: Use EDA techniques to know how significantly different factors contribute to food insecurity.
* **Achievable**: Can find variables which are significantly affecting food insecurity and can create models for ensuring food security in households.
* **Relevant**: Food being the basic requirement of any human, this study can shed light on what the authorities and we ourselves can do in order to eradicate food insecurity.
* **Time-oriented:** Data set for the month of December 2021 is considered for the study so that it can also show the effect of Covid-19 in food security.
* **Understanding Data**

We have obtained the data from the US Census website using CPS data. The CSV file contains approximately a hundred thousand observations.

The link to our dataset is:

<https://www2.census.gov/programs-surveys/cps/datasets/2021/supp/dec21pub.csv>

* **GitHub Repository**

We are a group of three and will be working on this project. Our collaborations can be seen at our GitHub Repository.

The link to our repo is : <https://github.com/ubold01/DATS6101-Project1-2022Fall>