**1) Project Proposal**

1. **Proposal Preparation**

The prison system is known to have many different sources of problems. Our goal is to research the prison system as a whole and go into detail analyzing the different problems that occur within it. For example, overcrowding in prisons, people staying beyond their sentence, separation of gender, and different types of charges and their severity. All these factors have created an inefficient prison system that subsequently impacts the entire system and relations to it. We would like to do a deeper study of these issues and their correlation within the prison system. Our solution is to develop an interactive visualization dashboard enabling dynamic analysis of data, highlighting the issues that occur within the prison system. Our goal is researching and developing data analytics to study our research topic. We will use specific data handling the number of cases specifically in the United States that are entangled with the issues of overcrowding, separation of gender, extended stays after sentencing, and specific criminal charges. We are well equipped to provide the necessary data analysis infrastructure for anyone to easily fuse and summarize as well as visualize vast amounts of disparate data. We will offer a basic statistical analysis and measurements of the data to provide a clear understanding of the subject our research is based upon to demonstrate that our research project was successful in developing a sound data analysis infrastructure. The report will present the purpose of the research, the means and methods used to gather data, the means and methods used to analyze the data, and the conclusions drawn from our analysis.

**2) Preliminary Literature Review**

* Inmate Society in the Era of Mass Incarceration

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5846711/>

* Human Cattle: Prison Overpopulation and the Political Economy of Mass Incarceration

<https://scholarworks.sjsu.edu/cgi/viewcontent.cgi?article=1037&context=themis>

* Jails, prisons, and the health of urban populations: A review of the impact of the correctional system on community health

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3456366>

* Challenges and Strategies for Research in Prisons

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3694772/>

* The Psychological Impact of Incarceration: Implications for Post-Prison Adjustment

[https://www.urban.org/sites/default/files/publication/60676/410624-The-Psychological-](https://www.urban.org/sites/default/files/publication/60676/410624-The-Psychological-Impact-of-Incarceration.PDF) Impact-of-Incarceration.PDF

* Emerging Issues on Privatized Prisons

<https://www.ojp.gov/pdffiles1/bja/181249.pdf>

* The Growth of Incarceration in the United States: Exploring Causes and Consequences

<https://academicworks.cuny.edu/jj_pubs/27/>

* Uneven Justice: State Rates of Incarceration By Race and Ethnicity

<https://www.jstor.org/stable/pdf/resrep27349.pdf>

* A Second Look at Alleviating Jail Crowding

[http://taurus.hood.edu:2113/eds/detail/detail?vid=4&sid=ee54013e-1fa3-48b7-aaa4-](http://taurus.hood.edu:2113/eds/detail/detail?vid=4&sid=ee54013e-1fa3-48b7-aaa4-8dcc0befca71%40pdc-v-sessmgr03&bdata=JnNpdGU9ZWRzLWxpdmU%3d#AN=edsgpr.000528851&db=edsgpr) 8dcc0befca71%40pdc-v sessmgr03&bdata=JnNpdGU9ZWRzLWxpdmU%3d#AN=edsgpr.000528851&db=edsgpr

* Mass Incarceration: The Whole Pie 2020

<https://www.prisonpolicy.org/factsheets/pie2020_allimages.pdf>

* Using Technology to Make Prisons and Jails Safer

<https://nij.ojp.gov/topics/articles/using-technology-make-prisons-and-jails-safer>

**3) GANTT Chart**

**Task** **Week**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **A) Identify Research Area** | **1** |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **B) Write Research Proposal** |  | **2** |  |  |  |  |  |  |  |  |  |  |  |  |
| **C) Literature Review** |  |  | **3** | **4** |  |  |  |  |  |  |  |  |  |  |
| **D) Data Collection** |  |  |  | **4** | **5** |  |  |  |  |  |  |  |  |  |
| **E) Data Analysis** |  |  |  |  |  | **6** | **7** |  |  |  |  |  |  |  |
| **F) First Draft** |  |  |  |  |  |  |  | **8** | **9** |  |  |  |  |  |
| **G) Second Draft** |  |  |  |  |  |  |  |  |  | **10** | **11** |  |  |  |
| **H) Final Paper** |  |  |  |  |  |  |  |  |  |  |  | **12** | **13** |  |
| **I) Presentation** |  |  |  |  |  |  |  |  |  |  |  |  |  | **14** |