**Specific Aims (1 page maximum)**

Paragraph 1 – *Provide a short background on the research topic and motivate the need for performing data science analysis in this area.*

Paragraph 2 – *Describe the long-term goals of the analysis and the overall objectives of this particular project.*

Specific Aims – *Identify specific project aims to meet the overall objectives mentioned above, with each aim corresponding to a hypothesis that you will evaluate during this project.*

1. Aim 1 –
2. Aim 2 –

Paragraph 3 – *Describe what outcomes the project will have and its expected impact on the overall research topic or society at large.*

**Project Plan (1-2 pages)**

Approach – *Describe the overall approach you will take to meet the analytical objectives of the project and the rationale for this approach.*

Data – *Describe any relevant information about the dataset(s) you intend to use in your analysis.*

Aim 1 – *In detail, describe the methodologies you will employ to achieve this aim. Provide additional sub-aims as necessary to scaffold your work. Include any preliminary analyses you have performed to support your approach to this aim.*

Aim 2 – *In detail, describe the methodologies you will employ to achieve this aim. Provide additional sub-aims as necessary to scaffold your work. Include any preliminary analyses you have performed to support your approach to this aim.*

Potential Problems, Alternative Strategies, and Benchmarks – Describe potential problems that could prevent you from achieving your specific aims and some strategies for overcoming them. Describe benchmarks that could be used to compare your results with extant techniques.

**Timeline and Resources (1 page maximum)**

Timeline – *Create a draft timeline for the completion of each task.*

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Weeks from Project Start (Nov. 15)** | | | | | | | | | | |
| **Project Task/Deliverable** | **1** | **1** | **2** | **2** | **2** | **3** | **3** | **3** | **4** | **4** | **4** |
| *Aim 1* |  |  |  |  |  |  |  |  |  |  |  |
| Sub-aim 1 |  |  |  |  |  |  |  |  |  |  |  |
| Sub-aim 2 |  |  |  |  |  |  |  |  |  |  |  |
| *Aim 2* |  |  |  |  |  |  |  |  |  |  |  |
| Sub-aim 1 |  |  |  |  |  |  |  |  |  |  |  |
| Sub-aim 2 |  |  |  |  |  |  |  |  |  |  |  |
| Sub-aim 3 |  |  |  |  |  |  |  |  |  |  |  |
| *Final Report* |  |  |  |  |  |  |  |  |  |  |  |
| *Final Presentation* |  |  |  |  |  |  |  |  |  |  |  |

Resources – *Identify computational, hardware, software, and other resources needed to perform your work.*