|  |  |
| --- | --- |
| 1. **Research Topic**   Describe the specific topic for your research (3-5 sentences).  The research topic should be appropriate for the course. The relationship between/among the course concepts should be clearly specified. | **Power BI Analytics in HealthCare Industry**  We are aiming to provide meaningful insight and improve healthcare quality. The objective is to improve the quality of health services by making embedding Power BI reports and dashboards so as to analyze patient data in real time. The visualization will help to simplify the process and allows decision makers to derive analytical results. As access to healthcare data grows, healthcare data requires new skills and approaches to understand the trends and patterns. Power BI would be a good solution to solve them. |
| 1. **Research Problem Statement**   Write a brief research problem statement/Thesis statement (2-3 sentences).  What are you trying to investigate? | Large data needs to be summarized for timely viewing of a patient's medical history. Data visualization can be used to address this problem and this research focuses on the application of potential tools and technologies. |
| 1. **Significance/Background**   Describe the significance of this topic in relation to course concepts. Significance should be explicitly stated, not implied (3-5 sentences). | Significance of power BI dashboards in health care organizations in getting insights into single or multiple facilities, patients, departments, clinical records, revenue etc. to be able to react and provide good patient support system while help grow the organization with Power BI healthcare dashboards. With the Help of dashboards, it is easy to keep track of patient information like **Patient visit summary, Hospital statistics, Department information, Revenue Summary, Bed classification & Designation**. |
| 1. **Research Questions**   List the primary research question(s). The research question(s) should be aligned to the research problem.  Write the direction of inquiry in your research. What are you attempting to answer through these questions? | Determining effective data visualization techniques for a timely analysis of patients' medical history and faster diagnosis and treatment. |
| 1. **References**   Provide at least 6 current (within 5 years), scholarly, peer reviewed PRIMARY resources to support statements. Follow APA style in citing all resources. | Isazad, Mona & Ojo, Adegboyega & Sullivan, Francis. (2019). *Analysis of Business Intelligence Applications in Healthcare Organizations*. 10.24251/HICSS.2019.503.  cdoadvisors. (n.d.). *power-bi-healthcare-examples/.* Retrieved from [cdoadvisors.com](https://www.cdoadvisors.com/): [cdoadvisors.com/power-bi-healthcare-examples](https://www.cdoadvisors.com/power-bi-healthcare-examples/)  Agarwal, R., Gao, G., DesRoches, C., Jha, A.K., 2010. Research commentary — the digital transformation of healthcare: current status and the road ahead. Inf. Syst. Res. 21 (4), 796–809.  Ker, J.I., Wang, Y., Hajli, M.N., Song, J., Ker, C.W., 2014. Deploying lean in healthcare: evaluating information technology effectiveness in US hospital pharmacies. Int. J. Inf. Manag. 34 (4), 556–560.  Jiang, P., Winkley, J., Zhao, C., Munnoch, R., Min, G., Yang, L.T., 2014. An intelligent information forwarder for healthcare big data systems with distributed wearable sensors. Syst. J. IEEE 1–9 (PP(99)).  Schneiderman, B., Plaisant, C., & Hesse, B. W. (2013). Improving health and healthcare with interactive visualization methods. *HCIL Technical Report*, *1*, 1-13. |