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| **1** | |  | **INTRODUCTION** | |  |  |  |
|  | |  | 1.1 Overview  The context of this document is to give dataset and problem statement details on Analyzing IoT sensor data with machine learning. | |  |  |  |
|  | |  | 1.2 Purpose  The purpose of this report is to give details around analysis and prediction done on a dataset to predict gender of subject basis the sensory parameters The dataset is created with random selection on 4 sensory data points generated from IOT devices. | |  |  |  |
| **2** | |  | **LITERATURE SURVEY** | |  |  |  |
|  | |  | 2.1 Existing problem  Though health assistants as smart watches are available however no such assistant available which can suggest tips as per your body parameters recorded during workout session. | | |  |  |
|  | |  | 2.2 Proposed solution  People use smart watches as their health assistant, we can use workout data from IOT devices. The prediction of a person's gender through sensory parameters, can be utilized to suggest a health regime specific to gender and health of the user. | | |  |  |
|  | |  | **3. THEORITICAL ANALYSIS** | |  |  |  |
|  | |  | 3.1 Block diagram  **Technical Architecture:** | |  |  |  |
|  | |  | 3.2 Hardware / Software designing  **Services Used:**   * IBM Watson Studio * IBM Watson Machine Learning * Node-RED * IBM Cloud Object Storage * IBM IoT Platform | | |  |  |
|  | |  | **EXPERIMENTAL INVESTIGATIONS**  Parsing the dataset through Watson Studio and creating the below Experiments in AutoAI dataset model | | |  |  |
| **5** | |  | **FLOWCHART** | |  |  |  |
| **6** | |  | 1. Create a AutoAI model using Watson Studio 2. Deploy AutoAI model 3. Create a API key 4. Use NodeRED to create a form and call AutoAI model 5. Pass values and predict results   **RESULT** |  |  |  |  |
| **7** | |  | **ADVANTAGES & DISADVANTAGES** | | |  |  |
| **8** | |  | **Advantages:**  A suggestive application tip for health aprising in these challenging times where human interaction is reduced due to pandemic.  **Disadvantages**  Suggestions are based on training done on IOT sensory data, hence proper data training is required also human intervention for understanding the suggestion is required.  **APPLICATIONS** | |  |  |  |
|  | |  | Health Assistants  Suggestive Blogs to read  **9.CONCLUSION** | |  |  |  |
| **10** | |  | Creating an AI model is error free and gives results in a time bound and accurate manner.  **FUTURE SCOPE** | | **`** |  |  |
| **11** | |  | **BIBILOGRAPHY** | |  |  |  |
|  | |  | **APPENDIX** | |  |  |  |
|  |  | | A. Source code | |  |  |  |
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