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| **Submission Title:** | Cancer Detection using Deep Learning |
| **Team Name:** | Life Fighter |
| **Team Member Names:** | Ankush Gupta |
|  | Qian Cai |
|  | Rahul Nomula |
|  | Shahzan Magray |
|  | Sunil Kumar C |
|  | |
| **Submission Category:**   |  |  |  |  | | --- | --- | --- | --- | |  | Application | |  | |  | Visualization/Analysis | |  | |  | Predictive Model | |  | |  | Dashboard | |  | |  | Other Solution | Click or tap here to enter text. | | | | |

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| **Submission Description --** Please provide a short description of your submission, what it does and the intended audience: |
| **Our submission is based on the dataset of Health Nova Scotia and our focus is on Cancer detection using deep learning algorithms. We took a specific type of cancer (Prostate) and trained our model to predict diagnosis of cancer using mass spectrometry data. We can train the model on other types of cancers data as well. Our intended audience is people from all age groups but specifically after ages of 35, as they are more prone to cancer as per our analysis. Also, we found Queens and Inverness county have higher mortility rates, which makes it a chief point to ask people to get the required checkups regularly, and also use our model which is present as a Web Application to help them regarding the same.** |
| **Name(s) of Nova Scotia Open Dataset(s) used in the solution:** |
| Health Statistics Cancer Rates Cancer Rates by Age Group 2003Health and Wellness, Health Statistics Cancer Rates 2002-2010Health and Wellness, Health Statistics Cancer Counts 2002-2010Health and Wellness |

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| **Name and source of other datasets used in the solution:** |
| **Canada government cancer statistics, prostate cancer mass spectrum data from National Cancer Institute** |

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| **Description of the tools, processes, and/or algorithms used to create your submission:** |
| **Tools:Deep learning Algorithms, Tried Deploying the application on IBM Blumyx, IBM Django. Process: We select important features using random forest and build a classifier with 3 different algorithms(SVM, Random Forest, KNN) and based on the performance we choose the best 1 to build the prediction model. Also we deployed our model on a Web Application using IBM Django and IBM Blumyx.** |

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| **Submission:** |
| Email completed Submission Fact Sheet and a copy of your pitch presentation to [stoze@dal.ca](mailto:stoze@dal.ca) by 2:15 PM, Sunday March 3, 2019 (unless instructed otherwise).  Email Subject line MUST follow the format **[Your Team Name] - Open Data Contest**. |