**INTERNSHIP: PROJECT REPORT**

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| Internship Project Title | TCS iON RIO 45: Automate detection of different emotions from textual comments and feedback |
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| Name of the Company | TCS iON |
| Name of the Industry Mentor | Debashis Roy |
| Name of the Institute | Prepinsta |

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| Start Date | End Date | Total Effort (hrs.) | Project Environment | Tools used |
| 20/02/2022 | 01/03/2022 | 45 | Goggle Collab | Python |
| Project Synopsis:  1)The project title is “Automate detection of different emotions from textual comments and feedback”.  2)The main objective of the project is to develop a deep learning algorithm to detect different types of emotion contained in text format.  3) The scope this project is extremely useful for various business firms to manage their brand reputation among users. | |  |  |  |
| Solution Approach:  Step1:Setting up environment.  Step2:Chossing our Dataset  Step3:Preprocessing data  Step4:Feature extraction  Step5:Training our models | |  |  |  |
| Assumptions:  This project can be bulid only by using naïve bayes classifier.And for numerical variable,normal distribution is assumed. | |  |  |  |
| Project Diagrams:  NA | |  |  |  |
| Algorithms:  1.Multinomial Naive Bayes Classifier  2. Linear SVM  3.Logistic regression  4. Random Forest Classifier | |  |  |  |
| Outcome:  Model accuracy: 0.7832369942196532 | |  |  |  |
| Exceptions considered:  Naïve Bayes is the assumption of independent predictors which is almost impossible in real life to get completely independent predictors. | |  |  |  |
| Enhancement Scope:  This project has been enhanced through hybrid approach which handles lexical modifier and improves classification performance. | |  |  |  |
| Link to Code and executable file: <https://colab.research.google.com/drive/1T1dGRZG8E1Ao7oDYrLnKBeIMG8QSDTYy?usp=sharing> | |  |  |  |

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