**PROJECT TITLE SUBMISSION REPORT**

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| **Project Title:** | | **Vitamin Deficiency Detection Using Image Processing and Neural Network** | | | | | |
| **Name of the students:** | | 1) Likhith Kumar V | | | USN: 4SM20CS029 | | |
| 2) Prasad C R V | | | USN: 4SM20CS050 | | |
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| **SL. NO.** | **REFERENCE PAPERS** | | **Technology** | **TOPIC** | | **IEEE papers/JOURNAL** | **YEAR** |
| 1 | Vitamin Deficiency Detection Using Image Processing and Neural Network | | Artificial Intelligence | Vitamin deficiency detection in human | | https://ieeexplore.ieee.org/document/9118303 | 2020 |
| 2 | Detection and classification of nutrient deficiencies in plants using machine learning. | | Machine learning | Detection of nutrient deficiency in plants | | https://iopscience.iop.org/article/10.1088/1742-6596/1850/1/012050 | 2021 |
| 3 | Detection of plant leaf nutrients using convolutional neural network-based internet of things data acquisition. | | Artificial Intelligence | Detection of plant leaf nutrients | | https://ijnaa.semnan.ac.ir/article\_5194.html | 2021 |
| 4 | Using Deep Convolutional Neural Networks for Image-Based Diagnosis of Nutrient Deficiencies in Rice. | | Artificial Intelligence | Diagnosis of Nutrient deficiency in rice | | https://www.hindawi.com/journals/cin/2020/7307252/ | 2020 |
| **HARDWARE REQUIREMENTS:** | | | User-end: Android Smart phone with camera | | | | |
| **SOFTWARE REQUIREMENTS:** | | | Development: Jupyter notebook (Python IDE) | | | | |
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| **Signature of Student members** | | | | | | | |