**N DINESH KUMAR**

Agricultural and Food Engineering | IIT Kharagpur

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| **EDUCATION** | | | |
| **Year** | **Degree/Exam** | **Institute** | **CGPA/Marks** |
| 2021 | Bachelor & Master of Technology (Dual Degree) | Indian Institute of Technology, Kharagpur | 7.76/10 |
| 2015 | Intermediate Public Examination. | Narayana Junior College, Hyderabad. | 96% |
| 2013 | Secondary School Certificate. | Narayana Concept School, Hyderabad. | 9.7/10 |

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| **WORK EXPERIENCE** |
| **Cereus Technologies, Pune Full Stack Developer Jun’21 - Present** |
| • Cereus Technologies is a Fast-Growing Fintech Company which provides Banking Solutions to various Financial Enterprises.  • Worked with Product Development team to build Credit Transfer Payment Instruction Generation System, Cash flows mmaintenance and fees calculations for non-pro rata, Created new Classes for Maintaining various Pages using OOP Concepts.  • Maintained Large-Scale Enterprise Application in accordance with Clients requirements using various technologies like C#, mASP.NET Core, HTML, BootStrap, JavaScript, Vue Js, SQL, and SQL Server Management Studio (SSMS). |
| **IIT Kharagpur Machine Learning Intern Apr’20 – Jun’20** |
| • Designed Machine Learning Algorithm to classify the Patients based on the extent of Disease Severity using the Patients data.  • Designed a Two-Layered Machine Learning Model to classify the Patients data. The first layer is used to classify the case and mcontrol type. The second layer is used to classify the extent of disease severity into low, moderate and high for case type.  • Pre-processed raw data, applied K-Means Clustering Algorithm on case type patient to cluster data into 3 different groups.  • Applied classification Algorithms such as Decision tree, Random Forest, XgBoost and found the best 2-layered Combination msuitable to classify the people. Used optimisation techniques to improve the accuracy of the model. |
| **PROJECTS** |
| **B-tech Thesis: Prediction of Shelf Life of Fried Banana Chips Jul’19 – Apr’20** |
| • Created a dataset for Shelf Life Prediction by performing a series of experiments using two different packaging materials.  • Applied OLS Regression, Lasso and Multiple Linear Regression Models, among which Lasso Model gave highest accuracy.  • Designed an Android App using Android Studio which predicts Peroxide value, Moisture content, Free Fatty Acid value of mbanana chips packed for certain time using two different packaging materials and analysed shelf life of banana chips. |
| **Topic: A Strategy to apply Machine Learning to Small Datasets Jun’20 – Oct’20** |
| • Designed a Two-Step Sequential Machine Learning Algorithm to improve the accuracy for a small dataset and compared it mwith a pre-trained Artificial Neural Network (ANN) model which requires more computations than former two-step model.  • Worked primarily on eye-tracking data from Tobiie pro eye sensor to estimate the **Reaction Time**, while playing VR games.  • Each layer of the neural network was pre-trained using **autoencoders**, and the pre-trained weights are used for final training.  • Obtained R2 scores for the ensemble sequential model was **91.34%,** and the R2 score for the trained ANN model was **84.65%**. |
| **SKILLS AND EXPERTISE** |
| **Programming Languages:** C# | C++ | Python | Java | SQL | HTML **Libraries:** Vue JS | Scikit-Learn | C++ STL | LINQ  **Softwares:** Visual Studio | SSMS | Android Studio | Dev C++ | MS Office |
| **COURSEWORK INFORMATION** |
| **Computer Science Courses:** Programming and Data Structures (Theory + Lab) | Design and Analysis of Algorithms | Machine Learning: Foundations and Applications | Object Oriented Systems Design | File Organisation and Database Systems  **Other Courses:** Partial Differential Equations | Probability and Statistics | Basic Electronics (Theory + Lab) | Economics | CAD Simulation of Agricultural Machinery | Marketing of Food and Agricultural Products | Technology Entrepreneurship  **Certifications:** C++ by SoloLearn | Python for Data Science by Cognitive Class | HTML 5 and CSS 3 Beginner Course by Udemy |
| **POSITION OF RESPONSIBILITY** |
| • **InterHall Team Captain:** Captain of Table Tennis Team of Meghnad Saha Hall of Residence for Academic Session 2019-2020.  • **InterHall Vice Captain:** Vice Captain of the Volleyball and Table tennis Team of MS hall for Academic Session 2018-2019. |
| **AWARDS AND ACHIEVEMENTS** |
| • Achieved rating of 6-star under problem solving skill and 5-star under C++ by solving 150+ problems in Hackerank platform.  • Solved 1100+ problems from geeksforgeeks platform and currently ranking 1st out of 5900+ students in IIT Kharagpur. |
| **EXTRA-CURRICULAR ACTIVITIES** |
| • Active member of Illumination and Rangoli team of Meghnad Saha hall which secured Honourable position in GC 2018-2019.  • Core Organising Team Member of Maitree sports event. In which I managed 400+ participants in different events for MS Hall.  • An active member of NSS, IIT Kharagpur, which works for the welfare and improvement of well-being of nearby rural areas. |