LAKSHANA TEKULA

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| <u>EDUCATION</u> The University of M | lemphis | Memphis, TN, USA |
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| M.S., in Data Science | Jan'23 – Dec'24 | |
| Jawaharlal Nehru Technological University B.Tech., in Mechanical Engineering (GPA 3.44/4) | | Hyderabad, TS, India |
| | | July'17 - July'21 |
| Achieved a top 2 | 2% ranking among 141,054 students in the engineering entrance exam. | |
| ECHNICAL SKILLS | | |
| | Jages: Python, Java, R, MATLAB, HTML,CSS | |
| Data Science | :Machine learning, Natural Language Processing, Deep Learn Statistics, Artificial Intelligence, SQL, Power BI, Excel, MS Office | e, SAS |
| Other Skills | : Inventory Management, MRP, CAD, CATIA, Solid Edge, ANSYS, / | Agile Project Management, ERI |
| PROFESSIONAL EX | | |
| | ys Limited Hyderabad, India | Jan'22 - Dec'22 |
| | datasets within the Apache Hadoop framework, employing advanced a | algorithms that resulted in a |
| • | ent in decision-making processes. | |
| | BI analytical tool to create visually compelling dashboards , aiding in the facilitating informed decision-making. | e interpretation of complex |
| Developed and high-quality out | executed comprehensive data cleansing processes, enhancing data ac puts. | curacy by 18% and ensuring |
| | th cross-functional teams to identify and implement key performance overall business performance. | indicators (KPI s), leading to a |
| Implemented d a | ata encryption techniques and access controls in Hadoop HDFS, enhan n industry standards. | ncing data security and |
| | rn MTAR Technologies Limited Hyderabad, India | Sep'21 - Jan'22 |
| Created compre | chensive process plans for diverse products including a prestigious pro AD, CATIA, Solid Edge, and ANSYS, ensuring efficient manufacturing w | |
| | d other design tools to optimize manufacturing processes, resulting in decrease in material waste . | a 10% reduction in productio |
| | ough analyses of production data , identifying areas for improvement a ance overall process efficiency. | and implementing strategic |
| ACADEMIC PROJE | CTS | |
| acial Emotion Reco | ognition Using Deep Learning Models: Python Neural Networks Date | a Analysis [<u>Project Link</u> |
| | ble 63% accuracy and 80% Precision across multiple classes through t | • |
| | npact of image rotation, scaling, and noise addition techniques, with fi n FER accuracy through optimized image processing. | ndings indicating a 7% |
| Identified and a applicability of I | ddressed real-world challenges , providing recommendations for enha FER systems. | ncing the accuracy and |
| Detailed explan | ation of the data acquisition, preprocessing, model architecture , and t | est-time augmentation. |
| Description of fi | ve-layer neural network architecture, hyperparameter tuning, and ins | sights into model's structure. |
| Achieved excep | using COIL-100 dataset: Python Deep Learning Data Analysis tional accuracy of 99.86% through implementation of DCNNs in object | |
| performance wl | hen compared to a diverse set of alternative machine learning algorith | ms. |

- Improved dataset quality through precise pixel normalization and resolution adjustments, contributing to a **15% increase in model accuracy**.
- Evaluated the predictive model using **Scikit-learn cross-validation** techniques to fine-tune parameters, ensuring an in-depth optimization process and refining performance to meet the highest standards of accuracy and precision.

ACHIEVEMENTS

FDUCATION

• Awarded Hacker Rank 5-star Gold Badge in SQL & Python