Harika Ch.

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# SUMMARY:

* Well educated candidate with excellent statistical knowledge and ability to find tough data points in an ocean of information. Well-versed in scientific research, statistics, spreadsheets, Machine Learning Techniques and Visualization. Can process data quickly and communicate findings effectively to stakeholders.
* Experienced in reliable statistical model building in academic projects.
* To work in a challenging and motivating career in **Data Science** and **Machine Learning** in engineering field that provides an opportunity to work with the latest technology.

**WORK EXPERIENCE:**

**Private Tutor** 2015 - 2017

Teaching all subject to MPC Students

Teaching all subject to B.Tech (CS)

**KEY SKILLS:**

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| --- | --- |
| Supervised Learning | Classification, Regression, Decision Trees, Ensemble Techniques, Random Forest, KNN, Logistic Regression, Naïve Bayes, Support Vector Machines (SVM), Support Vector Regression (SVR) |
| Unsupervised Learning | K-means clustering, Hierarchical and non-Hierarchical clustering, PCA  |
| Programming Languages | Python, C, C++, Core Java |
| Deep Learning | Neural Network (ANN), CNN, Computer Vision, Natural Language Process, Long-Short Term Memory |
| Statistical Methods | Predictive Analysis, Exploratory Analysis, Hypothesis Testing, ANOVA. |

**PROJECTS:**

**COVID-19 Detection from Chest X-rays using Transfer Learning**

In this study, we introduce **COVIDx-19 NET**, our Deep Convolution Neural Network model designed to detect the COVID-19 cases from the chest x-ray images that comprises of pneumonia, normal and COVID-19 chest x-rays. The chest x-ray images that are available for the open source from covid-chestxray-dataset and combined them with the publicly available chest x-ray images from National Institutes of Health Clinical Center (NIH). Inspired by the COVID-Net, a deep convolution neural network, we implemented COVIDx-19 NET by leveraging some of the pre-trained models from keras preprocessing library

Also, the transfer learning technique using the pre-trained models has helped in building our model quickly with a very good accuracy.

#### **Dog Breed Identification - Determine the breed of a dog in an image**

This kaggle project involves building a convolutional neural network capable of identifying a dog's breed from a photo and classifying into one of the known 120 dog breeds. Different hyperparameters like optimizers, batch size, activation functions were tuned in order to get better accuracy and improve the model performance.

**Skills and Tools**

Computer Vision, CNN, Keras, Transfer Learning

**Bank customer churn modeling using Neural Networks**

This Kaggle project involves building an ANN-based churn model which can determine whether certain bank customers will continue using their service or not. The ANN model analyzes the relationship between customer churn & multiple independent variables affecting churn. Recommendations for improvements in service were suggested based on the results of the analysis

**Skills and Tool:** Neural Networks, Classification, Keras, TensorFlow

Clustering cars based on attributes

Analyzed cars dataset and performed exploratory data analysis and then categorized them using K means clustering. Used linear regression on the different clusters and estimated coefficients.

**Skills and Tools:** K means clustering, Hierarchical clustering, Linear Regression

Diagnosing Parkinson's disease

Built a model using random forests in order to diagnose Parkinson's disease in patients. Used voice recordings of patients as data in order to differentiate between patients with and without Parkinson's disease. Measured performance of models and determined the optimal number of trees in order to obtain the best result.

**Skills and Tools:** Ensembles Learning, Decision Trees, Classification

**CERTIFICATIONS:**

* Got the certificate from AIACTE (All India Academy of Computer and Technical Education) for securing first division in C Language practical examination
* Got the certificate from Great Learning Project show case for Artificial Intelligence and Machine Learning held on 16th ,Aug 2020 on YouTube Live channel. My project(COVID -19 Detection from chest X-ray’s Using Transfer Learning) got selected as the best project from Health care domine

**EDUCATION:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Education** | **Institute** | **University** | **Percentage** | **Year of passing/period** |
| Post Graduate Program in Artificial intelligence and Machine Learning (PGPAIML) | Great Lakes Institute of Management, Hyderabad | University of Texas,Austin | Pursuing 81%(Sem-I) | 2019 - 2020 |
| Masters in Technology (Spl. Parallel and Distributed Systems) | University College of Engineering | Osmani University at Hyderabad, Telangana, India | Pursuing | 2019 - 2021 |
| Bachelor of Technology (Spl. Computer Science) | Vidhya Bharathi institute of technology, Jangaon | Jawaharlal Nehru Technological University, Hyderabad, Telangana, India | 67.38% | 2015 |
| Intermediate (11th and 12th) Maths, Physics and Chemistry (MPC) | Bhuvana Junior college, Bhongir | Board of Intermediate, Hyderabad, Telangana, India | 82.30% | 2008 |
| Secondary School Certificate | Sri Vidhyaniketan High School, Yadagirigutta | Board of Secondary Education, Hyderabad, Telangana, India | 82.16% | 2006 |

**PERSONAL INFORMATION:**

Date of Birth: 18th November, 1990

Nationality: Indian

Marital Status: Married

Languages known: Telugu, Hindi, English

Passport Detail: No:-P3054029

 DOE:19/06/2026

I hereby declare that the information furnished above are true and correct to the best of my knowledge.

**PLACE: - Hyderabad**