

**DINESH KUMAR CHAUDHARY**

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**CAREER OBJECTIVE**

* To be associated with a progressive organization, where I can employ **Data Science**, **Machine Learning**, **Deep Learning & Computer Vision** knowledge and skills to contribute the growth of the organization and personal growth in aneffective manner



**PROFESSIONAL SUMMARY**

* Around 4.0 year of experience in **Data Science** and developing data science & Machine Learning /Deep Learning based applications and services and 0.6 year of experience in **Software Development**.
* Experience of working on end-to-end data science pipeline: **problem scoping**, **data gathering, EDA**, **modelling**, **Visualizations** and **deployment.**
* Participating in **Data Pre-processing** Techniques in order to make data useful for creating Machine Learning Model.
* Work on the small and largescale dataset to analyse using **Exploratory Data Analysis** technique done by **Python** & its libraries **Pandas & NumPy** and Visualize data using **Matplotlib & Seaborn.**
* Experience in using libraries like **NLTK, SpaCy,** for **text cleaning**, **extracting feature** from **raw text**, **text classification** and **LSTM** for **Real time Twitter Sentiment Analysis**, **Emotion Recognition and Named Entity Recognition** in text data.
* Deploy ML Model with **BERT**, **DistilBERT, FastText** NLP Models in Production with **Flask**, **UWSG**I and **NGINX** at **AWS EC2** on **Ubuntu** and **Windows** Server.
* Experience in training ML models in tools like **AWS SageMaker** and building model using **bagging** and **boosting** algorithms.
* Machine Learning end to end mode **deployment** on cloud (**Heroku, AWS**).

 Experience in algorithm, **AI, ML, DL** and computer vision which include **ANN, CNN, RNN**, **LSTM** neural networks with **OpenCv**, **TensFlow & Keras**.

* Building **Machine Learning/Deep Learning** algorithm based web application using framework **Streamlit & Flask.**
* Experience in using code versioning tools like GIT.
* Experience in detect objects on **image, video** and in **real time** by using **YOLO V3** and **OpenCV** deep learning library. And label **own dataset** as well as **create custom one** by extracting needed images from huge existing dataset. When datasets are ready, we **train and test** YOLO V3 Detectors in **Darknet framework**.
* Building Image Processing and Facial recognition model using Transfer Learning pre-trained models like **VGG (e.g**. **VGG16 & VGG19**), **Google Net (e.g. InceptionV3)** and **Residual Network (e.g. ResNet152V2**).



**DATA SCIENCE SKILLS**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | **Statistical Skill** | |  | **Python** |  |  |  |
|  |  |  Descriptive Statistics, Inferential Statistics | |  |  | NumPy |  |  |
|  |  |  EDA, Test of Hypothesis and Model Validation | |  |  | Pandas |  |  |
|  |  | **Machine Learning** | |  |  | Matplotlib |  |  |
|  |  |  | Linear Regression |  |  | Seaborn |  |  |
|  |  |  | Logistic Regression |  |  | SciKit-Learn |  |  |
|  |  |  |  |  |  | |  |  |
|  |  | Support Vector Machine |  | **Deep Learning** | |  |  |
|  |  |  | Decision Tree |  |  Multilayer Layer Perceptron (MLP | |  |  |
|  |  |  | Random Forest |  |  | Convolutional Neural Network(CNN) |  |  |
|  |  |  | Naïve Bayes Classifier |  |  Recurrent Neural Network (RNN) | |  |  |
|  |  |  | K-Means Clustering |  |  Natural Language Processing (NLP) | |  |  |
|  |  |  | |  |  TensorFlow, Keras, OpenCv, NLTK,SpaCy | |  |  |
|  |  | **Web Development** | |  |  |  |
|  |  |  | Streamlit, Flask, RestAPI |  | **Computer Vision** | |  |  |
|  |  |  | SQLite |  |  Image Classification, Object Detection | |  |  |
|  |  |  | SQLALCHemy, |  |  | Face Detection |  |  |



**Technical Skill**

* Microsoft Office Suit
* Databases
* Programming Language
* Environments

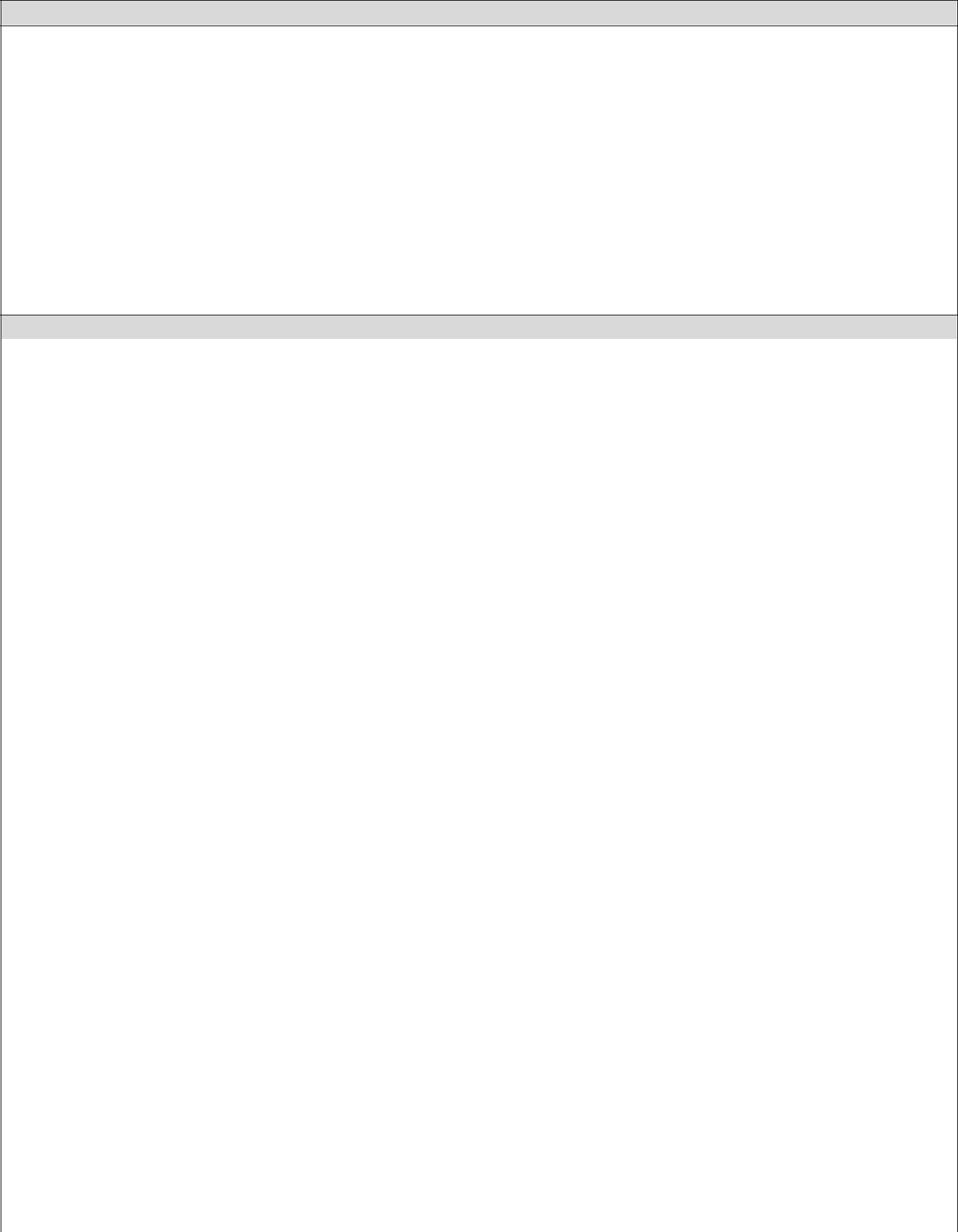
Word, Excel, PowerPoint

SQL, MySQL

Python, Java and R

Jupyter Lab, Jupyter Notebook, Spyder, Google Colab

Sublime Text, PyCharm, VsCode, AWS, Heroku



**CERTIFICATIONS**

* Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning on Coursera
* Convolutional Neural Networks Deeplearning.ai on Coursera
* Neural Networks & Deep Learning Deeplearning.ai on Coursera
* Getting Started with AWS Machine Learning on Coursera
* Machine learning Stanford University on Coursera
* Building Machine Learning Web App with Python Udemy
* AWS SageMaker – Certified Machine Learning Specialty Exam Udemy
* Training YOLO V3 for Objects Detection with Custom Data on Udemy
* Diploma in Data Science & Big Data Analytics N.I.T
* OpenCV Python /Hands on Computer Vision, Udemy
* Oracle Database 11g: SQL Fundamentals, Naresh I Technolgies
* Core & Advanced Java, Naresh I Technologies
* Html, Css & JavaScript, Naresh I Technologies

**EDUCATION**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | **Year** |  | **Institute** | | **Course** |  |  |  |
|  |  | 2018 | |  | National Institute of Technology, Raipur | | MCA |  |  |  |
|  |  | **EMPLOYMENT SUMMARY** | | | | |  |  |  |  |
|  |  |  | **Year** |  | **Designation** |  | **Company** |  |  |  |
|  |  |  | May 2019- Present |  | Junior Data Scientist |  | Vengai Software Solutions Pvt.Ltd,Hyderabad |  |  |  |
|  |  |  | Jan 2019- March 2019 |  | Data Science Intern |  | Kreeda Online Services (opc) Pvt. Ltd, Bangalore |  |  |  |
|  |  |  | Jan 2018 – June 2018 |  | Software Developer Intern |  | Inleagues SoftTech Pvt. Ltd, Hyderabad |  |  |  |
|  |  | **PROJECTS** | |  |  |  |  |  |  |  |
|  |  |  | **Project1** |  | **Disease Mortality Predictor Web Application** | | |  |  |  |
|  |  |  | **Description** |  | This is a data science project and domain is Healthcare. The aim of this project predict if a | | |  |  |  |
|  |  |  |  | Hepatitis Patient Will **Live** or **Dies** based on some parameter. To solve this problem, we | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  | used Machine Learning algorithm like Logistic Regression, Decision Tree and KNN. And | | |  |  |  |
|  |  |  |  |  | Build web application using Flask and Streamlit Framework. | | |  |  |  |
|  |  |  |  |  |  | | |  |  |  |
|  |  |  | **Project2** |  | **Object Detection Model Graphical User Interface** | | |  |  |  |
|  |  |  | **Description** |  | I implemented object detection model on **image, video** and in **real time** for home amenity | | |  |  |  |
|  |  |  |  | using **YoloV4** and **OpenCV** deep learning library. We did **label own dataset** as well as create | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  | **custom one** by extracting needed images from huge existing dataset. When dataset is | | |  |  |  |
|  |  |  |  |  | ready, we **train and test yoloV4** detectors **in Darknet Framework**. And we build graphical | | |  |  |  |
|  |  |  |  |  | user interface for Object by Yolo and by the help of **PyQt**. | | |  |  |  |
|  |  |  |  |  |  | | |  |  |  |
|  |  |  | **Project3** |  | **Driver Drowsiness Detection System** | | |  |  |  |
|  |  |  | **Description** |  | The objective of this is to build a drowsiness detection system that will detect that a driver’s | | |  |  |  |
|  |  |  |  | eyes are closed for a few seconds. This computer vision system that can automatically | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  | detect driver drowsiness in real-time video stream and then play an alarm if the driver | | |  |  |  |
|  |  |  |  |  | appears to drowsy. | |  |  |  |  |
|  |  |  |  |  |  | |  |  |  |  |
|  |  |  | **Project4** |  | **Face Detection App** | |  |  |  |  |
|  |  |  | **Description** |  | This is a computer vision project. In this project we built a face detection web application | | |  |  |  |
|  |  |  |  | using opencv and streamli framework. And also we deploy this on the HEROKU. | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  | For full explanation visit here: <https://bit.ly/3jBQwZu> | | |  |  |  |
|  |  |  |  |  | [https://dinu-face-detection-app.herokuapp.com](https://dinu-face-detection-app.herokuapp.com/) | | |  |  |  |
|  |  |  |  |  |  | |  |  |  |  |
|  |  |  | **Project5** |  | **Flight Ticket Fare Prediction App** | |  |  |  |  |
|  |  |  | **Description** |  | This is a data science project, the aim of this project predict the flight ticket fare for various | | |  |  |  |
|  |  |  |  | airlines. To solve this problem, we use machine learning algorithm Random Forest. And | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  | build web application using Flask. | |  |  |  |  |
|  |  |  |  |  | For full explanation visit here: <https://bit.ly/34xnNig> | | |  |  |  |
|  |  |  |  |  |  | |  |  |  |  |
|  |  |  | **Project 6** |  | **Image Captioning Generator** | |  |  |  |  |
|  |  |  | **Description** |  | In this Project, we implemented the Image Caption Generator using CNN and LSTM. The | | |  |  |  |
|  |  |  |  | image features will be extracted from Xception which is a CNN model trained on ImageNet | | |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  | dataset and we feed the features into the LSTM model which will be responsible for | | |  |  |  |
|  |  |  |  |  | generating image captions. | |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

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|  |  | **Project 7** |  | **Face Mask Detection App** |  |  |
|  |  | **Description** |  | This is a computer vision project. In this project we built a face mask detection app with |  |  |
|  |  |  | opecv, keras/tensorflow using deep learning and computer vision concept in order to detect |  |  |
|  |  |  |  |  |  |
|  |  |  |  | face mask in static images as well as in real-time video stream. |  |  |
|  |  |  |  | For full explanation visit here: https://bit.ly/3lfbnSP |  |  |
|  |  | |  |  |  |  |
|  | **PERSONAL DETAILS** | |  |  |  |  |
|  |  | Date of Birth |  | 15-NOV-92 |  |  |
|  |  | Nationality |  | Indian |  |  |
|  |  | Marital Status |  | Unmarried |  |  |
|  |  | Language Known |  | English, Hindi |  |  |
|  |  | Permanent Address |  | Uttar Pradesh |  |  |

**DECLARATION**

I do hereby declare that the above mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of above mentioned particulars.

Place:-Hyderabad Dinesh Kumar Chaudhary