THIRUMALAI VENKADESAN V

Data Scientist

Personal info

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Career Summary

- **Data scientist with 2+ years of experience as a freelance data scientist**. Passionate about building models that fix problems. Relevant skills include ML/DL, problem solving, and creative thinking.
- Designing supervision models for **Deep Learning** projects.

Skills

- Machine Learning
- Deep Learning
- Python
- OpenCV
- NLP
- Image & Video Processing
- Project design & Development

Professional Experience

Python Developer - Deep Learning & Machine Learning & Computer vision

Nov 2019– 2020, Pantech ProEd Pvt Ltd., Coimbatore.

- Developing Machine Learning Supervision Models using **Scikit-learn** and Neural Network Models **(CNN/RNN)** using **Tf.Keras** module in **Python**.
- Developing pattern recognition algorithms (SVC), Feature Descriptors (HoG) for CV Applications.
- Developed **detecting & tracking Dlib/Cascade** models for facial parts and Objects recognition in Video Processing.
- Developed image segmentation, Real time object detection & tracking algorithms(YOLOv3 and YOLOv5).

Data Scientist-*Apr 2021– To Dec 2022 MIRNAH TECHNOLOGY SYSTEMS LIMITED., SAUDI.*

- Developed OpenCV algorithms such as RCNN, YOLO, Using Supermarket Multiple object detection.
- 3D Medical Image Segmentation Based on Multimodal U-Net,3dU-Net, V-net,3dV-net Algorithms used to predict Tumor part.
- Generating the machine learning models & Neural Network model **(CNN/LSTM) (SVM, KNN, Random Forest, ANN, XGBoost, LightGBM)** using Python.

Data Scientist –Apr 2022 –Till Icliniq the virtual hospital (Orane Health care)., Coimbatore.

- Developed Machine Learning algorithms such as SVM,PCA,Adaboost,NaïveBayes,NLP,LinearRegression, Logistic Regression Using Query based Medical Specialty Detector.
- Logistic Regression and SVC , Pipeline algorithm Using Similarity Checker for Medical Article .
- SVM,SVC, Random forest, Logistic Regression, Linear Regression, Decision Tree , NLP and Pipeline algorithm used to Medical Symptom Checker .
- Keyword Based URL finder using Decision Tree It will help to find Exact Link, and also Spam Link Detector for Automation Task using ML algorithm.
- Heart Disease Predict using Five ML algorithm Concatenate to Predict Disease.
- More Data Analytic Task Like Data Visualization

- Using Sea born Lib, Matplot Lib, and also Using Dimensionality Reduction Algorithm helps to Reduced Size of the Data, and Overfitting used to how we can generalized Data outside of our Model Accurately, Under-fitting used to when it cannot capture the underlying trend of the data.

- Generating Supervised& Unsupervised algorithm, Boosting Algorithm ,Semi - supervised, Reinforcement Learning Algorithm had to apply our Data Set.

- Finally Deploy Using Flask API To get json Object.

- Using Command Line to PUSH to Github, Creating a new repository for existing project. Copy the GitHub for New repo to clipboard.

Academic details

- **B.E. Electronics & Communication Engineering**
  2015-2018
  Graduated with 6.69 CGPA at Arjun College of Technology, Coimbatore.
- **Diploma, Electronics & Communication Engr**
  2011-2014
  Graduated with 78.9% at Sri Sowdambika polytechnic College, Aruppukottai.

Roles and Responsibility

- Data mining or extracting usable data from valuable data sources.
- Using machine learning tools to select features, create and optimize classifiers.
- Carrying out preprocessing of structured and unstructured data.
- Enhancing data collection procedures to include all relevant information for developing analytic systems.
- Processing, cleaning, and validating the integrity of data to be used for analysis.
- Analyzing large amounts of information to find patterns and solutions.
- Developing prediction systems and machine learning algorithms.
- Presenting results in a clear manner.
- Propose solutions and strategies to tackle business challenges.
- Collaborate with Business and IT teams.
- Apply Feature Engineering Algorithm To convert Non Numerical data to Numerical data.

Achievements

- Provided seminar/session to team members for knowledge sharing.
- Given Deep & Machine Learning with Python workshops and seminars in number of colleges and trained more than 100 students with excellent feedback.
- Improved the business levels by client satisfaction
- Admired by management for branch and department support.
- Completed Data analysis, resulting in a 87% increase in Accuracy.
- Conducted research using focus groups on 3 different Project and increased Efficiency due to the prediction.

Declaration

I hereby declare that the information endowed above is genuine to the best of my knowledge and belief.

(THIRUMALAIVENKADESAN V)