Kamalesh S (Software Engineer)
Experience in executing full life-cycle development projects; ramping up projects within time, budget & quality parameters, as per project management & best practice guidelines, targeting assignments in **Data Science, Machine Learning and Deep Learning** with an organization of high repute.
Location Preference: **Bengaluru and Chennai**

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Profile Summary

Experience in architecting applications with **Algorithms, Data Structures, Binary Tree, Artificial Intelligence, Machine Learning, Deep Learning, which includes CNN, Recurrent Neural Network with Python**.

Skilled in libraries such as **Sklearn, Numpy, Pandas, Matplotlib, Seaborn, OpenCV, Keras, Tensorflow, NLTK, Beautiful Soup and Darknet.**

Rich experience in all phases of the **software development life-cycle** (requirements, design, development, testing, release, support), utilizing multiple development methodologies, including **Design Patterns, OOD, Extreme Programming, and Structured Programming.**

Expertise in manipulating and analyzing complex, high-volume, high-dimensionality data from varying data sources and big data sources.

Deployment of Machine Learning and Deep Learning Models using PAAS such as Heroku and IAAS such as AWS EC2 instance, Amazon Rekognition, AWS Sage Maker and S3 Bucket.

Career Timeline

Planys Technologies, Chennai
Jan 2021- Present

Engineer - Software Engineering

Python Software Developer for Linux, I was involved in developing programs for the following.

1. Using darknet trained a defect detection model for AI Enabled ROV. Common defects such as (Marine growth, Corrosion, Scratches) have been trained using tiny- YOLOv4 .
2. Python program to display AI Engine and Cockpit Display.
3. Python Program for Video Enhancement application using Node.js.
4. Under water image video classification using VGG16 model.
5. Research and Development on various fields like Under water Defect detection using Reinforcement learning and Reverse image Search.
6. Other Management works like CMake file build, ISO Auditing & Shell Scripting.

Pantech Solutions, Hyderabad
Nov 2017- Jan 2021

Data Scientist

Working closely with business and engineering teams to encourage statistical best practices with respect to experimental design, data capture and data analysis :

1. Participating in Data Preprocessing Techniques in order to make data useful for creating Machine Learning Models

2. Developing Machine Learning Algorithm both Supervised and Unsupervised Learning to determine processing techniques.
3. Deploying a Machine learning Model and Deep learning Model in Cloud like AWS and Heroku.

Education

Hindusthan College of Engineering and Technology, Coimbatore, Tamil Nadu — 08/2013-03/2017

BTech Infromation Technology - 70.95 %

Ideal Higher Secondary School, Erode, Tamil Nadu — 06/2010-03/2012

H.S.C. 70.57 %

Ideal Higher Secondary School, Erode, Tamil Nadu — 06/2010-03/2012

S.S.C. 75.57 %

Technical Skills

Programming Languages:

1. Python
2. C/C++
3. Linux & Shell Scripting
4. Data Structures & Algorithms

Databases:

1. MySQL
2. Basic knowledge in Oracle

Platforms and Misc.: Anaconda, Jupyter Notebook, Spyder IDE, Visual Studio 2017,VS 2016, Anaconda, Python IIS, Windows XP/W7/W8, Ubuntu 20.0.

Project Summary:

1. **Classifying Imbalance Data into a Balanced Data using Sampling Technique in Machine Learning**
   Technology: Python – Machine Learning (Scikit Learn)
   Project Description:
   During training a Machine Learning Fitting of Data in Appro-pirate is important. If you train data in a non appro-pirate it may affect prediction results. So, In this project I done a sampling Technique to achieve Appro-pirate fitting and Predication result also nice compare to original data.The Data set which I am using for this Project is Credit Card Fraud detection in UCI.

2. **Food Item Recognition Using Machine Vision in Mobile Application**
   Technology: Python – OpenCV , Keras and Android Studio
   Project Description:
   An approach towards Android Application. Nowadays we are working with Deep learning and Android is

popular. So I built a Deep Neural Network learning model (CNN). Which is used for predicting foods using an Android mobile camera.

3. **Heart Diseases Prediction using Flask Framework With Platform as a Cloud Services**

Technology: Python – Scikit Learn, Flask Framework, Heroku Cloud

Project Description:

In this Project I developed a Machine Learning model using Pickle file and PAAS . I trained a different type of Machine Learning algorithm that gave the best accuracy result. I dumped an algorithm model as a .pkl file and I worked on it with HTML and Flask framework to build a web application. Then dumped all code and files into Heroku Cloud .

Work Towards The Data Science

- Linkedin
- Github
- Youtube