Sharath Chandra S

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# PROFILE

I am an Associate Software Engineer having rich 2+ years of experience in executing full life-cycle of development projects. Passionate about Data Science & AI, having good object oriented programming skills, well versed knowledge of making full end-to-end Data Science pipeline from scraping to deploying applications in various cloud platforms, having good analytical and problem solving skills.

# SKILLS

## Languages

*Python3.x, SQL and HTML5*

## Tools

*PyCharm IDE, Anaconda IDE, Visual Studio, PowerBI Desktop*

*and Jupyter Notebook*

## ML/DL Algorithms

*Machine Learning Algorithms both Classification and Regression like Random Forest, KNN, Ensemble Techniques, Linear and Logistic Regression Algorithms etc.*

*Deep Learning Algorithms like ANN, CNN, advanced RNN with LSTM, Transfer Learning Techniques in CNN, YOLO, Tensorflow Object Detection and Object Tracking.*

# PROFESSIONAL EXPERIENCE

## [ineuron.ai](https://ineuron.ai/)

[**Data Science Intern**](https://ineuron.ai/)

Currently working on a project which is Automatic Cheque Book Processing and Validation(Development phase)

Doing in depth research on different OCR's currently available for recognizing handwritten text data

Working on different Image preprocessing techniques to extract better content from different Cheque slips.

Involved in all project life-cycle stages, starting from requirement gathering, data collection & cleaning, building & validating models and deploying the final end product of the AI application

## Adecco India Pvt Ltd.

## Associate Software EngineerFrameworks & Libraries

*Tensorflow, Keras, Pandas, NumPy, Scikit-learn, NLTK, Spacy, OpenCV, Flask, Seaborn, MatplotLib, Data Cleaning and Analyzing, GIT & GitHub.*

## Operating System

*Linux ( Ubuntu ), Windows.*

## Languages

*English, Hindi and Telugu.*

## Hobbies

*Web Surfing, Collecting Articles, Playing Caroms.*

October 2020 - present

(Bangalore, India)

November 2017 - April2020 (Hyderabad, India)

Worked as a Associate Software Engineer in Agricultural Co-operative Banking Domain

Generating reports from millions of patient records as per client requirements

Handling technical issues in form of tickets in ServiceNow Tool Knowledge of ServiceNow Application workflows

Provided full Technical Support to inpatients and Nurses using Cerner Applications

# PROJECTS

## Bangalore House Price Prediction App

**AIM : An End2End Application to predicting the house prices of Bangalore city and Deploying app in Azure Cloud with data PowerBI Dashboard**

Technologies Used - Machine Learning Algorithms includes Logistic Regression Algorithm, Random Forest regressor, Python, Sklearn, Flask, PyCharm IDE.

Pipelines Created - Data Collection, Feature Engineering, Model Creation, Model Hyperparameter tuning, Model Deployment using Heroku.

## Breast Cancer Detection Application

**AIM : To Build a classification based model that can predict the type of cancer(benign and malignant cancer** **) based on the given training data and Deployed on Heroku**

Technologies Used - Machine Learning Algorithms includes K-Means Clustering Algorithm, Random Forest Classifier, K Nearest Neighbors, Python, Sklearn, Flask, PyCharm IDE.

Pipelines Created - Data Collection, Feature Engineering, Model Creation, Model Hyperparameter tuning, Model Deployment using Heroku.

## PCB tiny components Object Detection (Ongoing)

**AIM : To build a complete end to end system for detection of the tiny components on the PCB**

Technologies used : YOLOV4,LabelImg tool, OpenCV, PyQt, Python,

Using different state of the art models like EffecientNet, YOLOV4, Faster R-CNN,InceptionV3 etc.

Labeled 530 images (640\*640) till now for 1st phase Testing

## Family Members Image Prediction

**AIM : To build an application that can predict different members of a family.**

Technologies Used - Advanced Deep Learning, Transfer Learning using VGG-16 architecture, Tensorflow, Keras, OpenCV, Python, Flask

Used various Data Augmentation techniques for increasing the data.

Successfully built the model with 90%+ accuracy and inference with Flask Application

## Sarcasm Detection using NLP

**AIM : Based on the news Headlines build a model which can detect sarcasm**

Technologies used : Python, Tensorflow 2.x, Keras, Jupyter Notebook

Used various preprocessing techniques in NLP to process the text data into our Neural Network.

## Speech Recognition System

**AIM : To build an algorithm that can understand simple spoken commands.**

Technologies Used : Python, librosa, Machine Learning, Flask

The model was trained on a Speech Commands Dataset which contains 65000 one-second long utterances of 30 short words, by thousands of different people.

Used Different Audio Processing Techniques for Preprocessing & Extracting features from the Audio Data.

## Irish Song lyrics generation using Bidirectional LSTM Networks

**AIM : Given some paragraph of irish song we have to generate new irish song lines**

Technologies used : Python, Tensorflow 2.x, Keras, Jupyter notebook

Given a short irish song lyrics broken the lines and done more preprocessing to create more data from it.

Created a Neural Network architecture using Bidirectional LSTM cells Successfully prepared a model with 94% accuracy on the test set

# EDUCATION CERTIFICATION

## M.Tech (ECE) Machine Learning Masters ineuron.ai

**Siddhartha Institute of Engineering Technology (2016)**

75% **Deep Learning Masters ineuron.ai**

## B.Tech (ECE) Complete A-Z Deep Learning Udemy

## Arjun College of Technologies & Sciences (2014)

72% **Complete A-Z Machine Learning Udemy**

* **Intermediate**

**Sri Chaitanya Jr. Kalasala (MPC) (2008-2010)**

80%

* **High School 10th**

**Sri Saraswathi Vidya Mandir**

85%