

**JESLIYA JOSE**

**Data Scientist(Artificial Intelligence Engineer)**

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**Summary:**

Enthusiastic professional with 2+ years of experience as a data scientist (Artificial Intelligence Engineer). Looking for an opportunity and platform where I can use my knowledge, skills, and experiences effectively for the employing company, use AI to empower the company and learn much more in the process.

**Technical Skills:**

- Machine Learning (Supervised & Unsupervised): Classification, Regression & Clustering(SVM, Naive Bayes, KNN, Decision Tree, Logistic regression, Linear Regression), Reinforcement Learning
- Predictive modeling
- Programming languages: Python(pandas,Numpy, Scipy, scikit-learn, matplotlib,keras,) & C
- Tensorflow
- Computer Vision(openCV, YOLO, Tensorflow object detection api)
- Deep learning, Artificial Intelligence(ANN, CNN, RNN (LSTM &Seq2seq), Recommendations Engines, Natural Language Processing (NLTK, Gensim, SPACY & BERT, pre-trained word embeddings(Word2Vec, GLOVE)
- Transfer Learning and different pre-trained models (VGG16, Inception Resnet v1)
- Chatbot frameworks Dialogflow and Rasa
- Data visualization (seaborn)
- Deployment: Flask, HTML & CSS,Github, Docker
- Databases: SQL & NoSQL (MongoDB)
- Cloud services: AWS

**Personal Skills:**

- Communication skills
- Positivity and hardworking mentality
- Ability to work in a team
- Enthusiastic to learn and solve problems

**Professional Experience:**

**DATA SCIENTIST** - Value C consulting services private limited, Bangalore ( January 2019 – Present )

**Responsibilities:**

- Approaching a data science problem constructively and finding effective and relevant solutions.Researching about various problems, techniques and solutions using advanced mathematics and statistics.
- Collect data from various sources, do data wrangling techniques on the data and visualize the solutions.

- Selecting features, building and optimizing classifiers using machine learning techniques , select best deep learning solutions for the given tasks.
- Work and contribute in a team environment with designing high quality software , communicating with clients and engineers and do the proper documentation.

### List of projects:

#### **1)FACE RECOGNITION PROJECT**

The face detection and recognition of employees is done with python and tensorflow. The face is detected using MTCNN (Multi-Task Cascaded Convolutional Neural Network) and the face recognition part is done by the facenet model. It is a one shot learning model and training is less time consuming.

**Skills / Techniques:Python,tensorflow, opencv,dlib**

#### **2)RECOMMENDATION ENGINE WHICH RECOMMENDS THE PRODUCTS BASED ON VISUAL SIMILARITY**

The clicked image is passed and it is checked with all the other images in the database and most similar images(visually) are recommended. Pre-trained VGG-16 model is used for feature extraction.

**Skills / Techniques:Python,Computer Vision ,CNN,flask,HTML & CSS,mongoDB**

#### **3)AUTOMATIC PHOTO CAPTURING SYSTEM**

The automatic photo capturing system for online applications is done . Here checks the presence of whole face using three different face detection models . Then it is assured that the eyes are open and mouth is closed. The photo is cropped as per the required size and saved.

**Skills / Techniques:Python,tensorflow, opencv,dlib,**

#### **4)DOOR OPENING SYSTEM USING FACE RECOGNITION AND SENSORS**

As the finger print recognition system for entry and exit creates safety issues in the modern scenario, an alternative system is preferred which uses the faces to recognize the people entering and exiting in an organization. It is combined with a system which checks whether the person has crossed the door to avoid cheating and fake attendance.

Tensorflow based face recognition system along with arduino based sensor is used.

**Skills / Techniques:Python,tensorflow, opencv,arduino,requests**

#### **5) ONLINE MONITORING SYSTEM WITH OBJECT DETECTION**

The attendance is checked with a monitoring system which automatically captures photo every 5 minutes. The photo is passed , the presence of person is checked in that photo then the system tries to recognize the persons with partial portion of face captured. Object detection with custom data was done for detecting face parts along with pre-trained feature extraction models.

**Skills / Techniques:Python,tensorflow,CNN, opencv,labelmg**

#### **6) MULTIPURPOSE CHATBOT IN MALAY AND ENGLISH.**

Chatbot for multiple purposes using dialogflow. The leave application forwarding, claim approval, appointment booking, clearing doubts, small talks are done by the chatbot. The chatbot is connected with a wikipedia page and if a user asks some question, the bot replies with data extracted from wiki page.

**Skills / Techniques:Dialogflow,python,Google Translate API**

#### **7)FAQ CHATBOT USING RASA.**

The questions about different products of a company is asked by the user. The chatbot understands the question format , then detect the entity in that question(product) with custom entity recognition using spacy and answers the question.

**Skills / Techniques:Python,Rasa,spacy**

#### **8)SENTIMENT ANALYSIS**

The sentiment, emotion and urgency of input sentence is returned .The model is Trained with a dataset consisting training sentences of 7000,2000 and 1000 for sentiment,emotion and urgency respectively.

**Skills / Techniques:Python,tensorflow,CNN, NLP,universal sentence encoder**

#### **9) TOPIC MODELLING FROM NEWS VIDEO PREDICTING THE NEWS TYPE**

The news video is the input. The video is segmented, converted into audio then into text.The type of news of every segment of the video is predicted .

**Skills / Techniques:Python,spacy,pydub,moviepy, Google's Speech API ,LDA**

#### **10)SELF LEARNING CHATBOT USING DIALOGFLOW**

The python API of dialogflow is used for customize the chatbot functionality for different types of users. As the user enters the personal details, the bot is trained for only specified(required) functionality then serves the user

**Skills / Techniques: Dialogflow,python,Dialogflow python API**

#### **Education History:**

**Government Engineering College, Thrissur (APJ Abdul Kalam Technological University)** Masters of Technology in 2019( 8.02 CGPA)

**Government Engineering College, Palakkad (University of Calicut)**

Bachelor of Technology in 2017(6.7 CGPA)

#### **Training**

- Training in "Data Science & Machine Learning" from Workoopolis.

#### **Personal Details:**

Date of birth: 31/12/1995

Blood Group: A +ve

#### **Contact Details:**

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#### **Declaration:**

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

**Jesliya Jose**