Vengatesh G

Experienced Professional (3 Years) with good practical working knowledge on Web Development and Machine Learning seeking opportunity to bring knowledge of programming, design, and media to a position for which I would be working.

Location Preference: **Coimbatore**, **Bengaluru and Chennai**

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https://github.com/vengateshGV

Profile Summary

- **Achievement-driven professional** with an experience of **3 years 1month.**
- Expertise In Developing Full Fledged Web Application.
- Working in architecting **Artificial Intelligence** applications **with Machine Learning, Deep Learning with Python. Deep Learning Techniques includes ANN, CNN, RNN, Advanced CNN and Advanced RNN with LSTM.**
- Basic working on **NoSQL databases like Mongodb** and **SQL databases like MySQL and SQL Server.**
- **Additional skills of Java, Java script, React, Angular, HTML, CSS, Bootstrap.**
- Also **Worked Independently for Deployment of Models using Dockers.**
- Experience in all phases of the **software development life-cycle such as agile process** (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.

Core Competencies

Machine Learning
Artificial Neural Networks
Convolutional Neural Networks
Computer Vision & Image Processing
Python
Statistics
Data Structure

Career Timeline

- **Senior Systems Engineer** in **Infosys** from **May 2018 – Feb 2021.**
- **Automation Engineer** in **AppviewX** from **March 2021**

Training And Certifications

- Machine Learning (Coursera)
- Neural Network And Deep Learning (Coursera)
- Django (LinkedIn)
- Pytorch For Deep Learning With Python Bootcamp (Udemy)
- Algorithms And Data Structures In Python (Udemy)
- Convolutional Neural Network (Coursera)
- Server-Side Development With NodeJS

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Technical Skills:

Operating System: Windows, Linux.
Tools Used: Visual Studio Code, GitHub, Spyder, Jupyter NoteBook, Eclipse, DB Browser, MongoDB Compass, Colab.
Software Framework And Library:

- ***Python*** - Flask, Scikit-learn, Numpy, Pytorch, Tensorflow, Pandas, openCV, Keras. Matplotlib, nltk, networkx, scipy.
- ***JavaScript*** - Angular 9, Angular, React, Node, Google charts, High charts.

Programming Languages: Python, Javascript, Typescript, c, c++
Database: SQL (MySQL, SQLite), NoSQL (MongoDB).
Web Design: HTML, CSS, Bootstrap.
Analytics Tool: Tableau Basics.
Cloud Platform: Pyspark Basics.

Personal Information

Birthday: June 26, 1995
Gender: Male
Marital Status: Single
Nationality: Indian
Address: 35/I Sivan Kovil Street, Virudhunagar

Education

SSLC (2010- 2011) - 96%
KVS Hr Sec School, Virudhunagar

HSLC (2012- 2013) - 94%
KVS Hr Sec School, Virudhunagar

BE ECE (2014- 2018) - 74%
Mepco Schlenk Engineering College, Sivakasi

Work Experience

Project	Project Aim	Technology	Role and Responsibilities	Project Goals
Dexcom	To Generate SSL Certificate For IOT Devices.	Python, Multiprocessing, MongoDB, Git.	1. Designed Project Workflow From Scratch 2. Got Reward For Workflow Code Designing	To Automate Huge Certification Creation.
Infosys Key-Stroke Dynamics	To Provide Security Using Key Strokes Patterns	Python, HTML, CSS, Git, React, Deep Learning.	1. Wrote Code To Capture Key Stroke Pattern 2. Code Review Deep Learning Model	To Provide High Security To The User By Capturing Various Typing Pattern and Deep Learning Algorithm
Brain Wave Monitoring Dashboard	To Provide Interactive Dashboard Monitor	HTML, CSS, Git, React.	1. Created User Interface For Brain Waves Monitoring.	Supported Hardware Devices And To Plot Waves.
Infosys Dashboard	To Provide Interactive Dashboard Monitor	HTML, CSS, Git, React, Google Chart	1. Created User Interface For Infosys Dashboard	High Level Dashboard
Face Controlled Robot	To Controlled The Robot Using Face Action	Python, Tkinter, Opencv	1. Created Application With DLIB Python Library	To Operate In Different Modes
Infosys Evaluation Platform	Automated Evaluated System	React, HTML, CSS	1. Designed Full Front _End	To Automate Interview Process.
Complete The Look Up Recommendation	Dynamic Recommendation based on complimentary colors	Python, sklearn, Pytorch, React, HTML, CSS, Bootstrap	1. Developed The Model	To Approach Recommendation In Complimentary Fashion.
Infosys Banking Security	Providing Security To The Customer	React, HTML, CSS	1. Designed Full Front _End	To Provide High Level Security

Self-Case Study On ML And DL

Project	Project Aim	Technology	Project Goals
Amazon Fashion Discovery Engine	To Develop Content Based Recommendation	Python, sklearn, Pandas, Matplotlib, Tensorflow, Keras, NLTK	Used Hybrid (ML+DL) Approach To Improve Recommendation.
Netflix Movie Recommendation System	To Develop Collaborative Filtering Based Recommendation	Python, sklearn, Pandas, Matplotlib, Scipy, Surprise, XGBoost	Used Hybrid Combination To Improve Recommendation.
Facebook Friend Recommendation	To Develop Recommendation System Using Graph Mining Techniques	Python, sklearn, Pandas, Matplotlib, Scipy, XGBoost, Networkx	Used Various Technique To Improve F1 Score
Personalized Cancer Diagnosis	To Develop An Interpretable Model To Detect Gene Mutation	python, scikit-learn, pandas, Matplotlib, scipy, MLextend	Used Various Technique To Improve Log Loss, Precision And Recall.
Quora Question Pair Similarity	To Develop A Model To Find Similar Or Dissimilar Questions	Python, sklearn, Pandas, Matplotlib	Used Various Technique To Improve Log Loss.
Taxi demand prediction in New York City	To Predict Cab Within The Surrounding Place	Python, sklearn, dask, Matplotlib	Used Various Technique To Improve MAPE

Donors Choose	To Develop A Model To Find Financial Support Status.	Python, NLTK, Scipy, Pandas, Matplotlib	Used Various Technique To Improve F1 Score.
Document Classification With CNN	To Develop A Model To Classify Documents	Python, NLTK, Pandas, Keras, Tensorflow	Used Various Techniques To Improve Validation Accuracy.
CIFR	To Develop A Model To Classify Objects	Python, Keras, Tensorflow	Used Various Techniques To Improve Validation Accuracy.
Self – Driving Car	Basic Simulator Level Self Driving Car	Python, Keras, Tensorflow	Using Single Level Data (from One sensor) To Control Steering.
Human Activity Monitoring	To Track Human Activity.	Python Keras, Tensorflow,	Used Both ML and DL Approach To Improve Accuracy
Microsoft Malware Classification	To Develop A Model To Classify Malware	Python, sklearn, Pandas, Matplotlib, Scipy, Surprise, XGBoost	Used Various Techniques To Improve Log Loss
Automatic Music Generator	To Generate Music With ABC Notation	Python, Keras, Tensorflow	To Generate Music With Char-Char LSTM Network.

Key Result Areas:

1. In Recommendation System - Worked with Various Technique BOW, TF-IDF, IDF, IDF-W2V, W2V, AW2V, Weighted Similarity, Euclidean Distance, Visual Based, Surprise Baseline Model, Surprise KNN Model with User-User Similarity and Item-Item Similarity, Matrix Featurization, SVD, SVD++, Jacard, Cosine Similarity, Page Rank, Shortest Path, Weakly Component, Adar Index, Kartz Centrality, HITS and Hybrid.
2. In All ML Case Studies Followed Standard Pipeline 1. Data Collection 2. Objectives and Constraints Formulation 3. Feature Creation and Feature Analysis 4. Multiple Model Creation 5. Performance Metric Analysis.
3. In All DL Case Studies Followed Standard Pipeline 1. Data Collection 2. Objectives and Constraints Formulation 3. Feature Creation and Feature Analysis 4. Multiple Model Creation with Different Architecture 5. Tensor Board Visualization.
4. Building Various Regression, Classification and Clustering Algorithms by Using Various sklearn libraries such as Linear Regression, Decision Trees, Ensemble techniques, Naïve Baye's, SVM and K-Means Clustering.
5. In Deep Learning Worked With Custom Callbacks, and Tensor Board Visualizer.