Nithya Vasudevan

Associate Manager - Senior Data Scientist

Deep learning engineer with 6.1 years of experience in Data Analytics; dealing with textual and image data and generating actionable insights and products. Proficient in grasping new technical concepts quickly and effectively utilizing them. Aim to grow as a Data Science Architect, Analytics leader and deliver financial value to the organization.

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📍 Sholinganallur, Chennai, India

🐙 https://github.com/Nithya-Vasudevan?tab=overview&from=2018-01-18

📱 9840624337

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WORK EXPERIENCE

Associate Manager - Senior Data Scientist
Tredence Analytics Pvt Ltd

02/2022 - Present

Achievements/Tasks

- Demand Forecasting on Sales to make more profits based on trade promotions for the client Kimberly Clarke using Fbprophet algorithm

Engineer II - Data Science
Verizon

02/2019 - 02/2022   *Chennai*

Projects/Tasks

- POC on Face Recognition using one-shot learning; Siamese architecture with conditional attention layer to focus facial features
- Wifi Extender Suggestions - Object Detection and depth estimation in 2D images using Computer Vision
- Rule Violation detection in Live zone environment using TFLITE Object Detection model.
- Retail Analytics using Computer Vision - Image classification project to identify the products at Verizon stores. Model Interpretation using Class Activation Maps Theory
- Identification of similar training phrases across various chat intents using BERT embeddings and cosine similarity.
- Distributed Tensorflow to run NN models in a cluster which reduces the training time & supports huge models to fit in memory.
- Worked on the Chatbot AI Testing tool to identify where the bot's conversational flow is disconnected and generate user phrases to test the bot using Natural Language Generation.

Systems Engineer
Tata Consultancy Services

06/2016 - 01/2019

Projects/Tasks

- Address cleansing of Store addresses-Spelling, Lat & Long correction.
- Prediction of Product Characteristics – based on the product description using Deep Learning - LSTM with word embeddings.
- Did a POC on "Identification of Similar Products". K-Means Clustering, Self Organized Mapping Algorithm based on sentence embeddings
- 'Nielsen – CDAR QMS' – BI Reporting Application. This project helped me to gain knowledge in MicroStrategy, Oracle and PostgreSQL

EDUCATION

B.Tech Information Technology
Rajalakshmi Institute of Technology

08/2012 - 05/2016

Projects

- A Comparative study of Heart Attack Prediction System Using Neural Network Architectures" International Journal of Modern Trends in Engineering and Research, Volume: 03 Issue: 07, July-2016
- Fire Alarm System using Arduino UNO kit

SKILLS

- Deep Learning: ANN, RNN, LSTM, CNN, Machine Learning: Decision Tree, K-Means, Linear Regression
- Tensorflow, Keras, Scikit-learn, Spacy, NLTK, OpenCV
- Computer Vision, Natural Language Processing, Natural Language Generation, AWS Sagemaker, Azure Databricks, Azure Data Factory
- Python, Database - SQL, Oracle

PERSONAL PROJECTS

Emotional Stress Detection based on brain activity using LSTM and attention mechanism (05/2019 - Present)

- Presented a talk in Machine Learning Developers Summit 2020 by Analytics India Magazine

Text Extraction from Medical Reports using OCR, Cascade TableNet Architecture, Camelot (04/2021 - 06/2021)

ACHIEVEMENTS

Techgig Code Gladiators 2020 (04/2020 - 08/2020)
NLP Hackathon on Automated Multilevel Multilabel Classification (Top 10/10187 participants)

Techgig Geek Goddess 2019 (08/2019 - 11/2019)
Solution Hunters Hackathon - Theme Winner

Techgig Geek Goddess 2018 (08/2018 - 11/2018)
Machine Learning Hackathon on Clickstream Analysis - Theme Winner

Analytics Vidhya - Capillary Machine Learning Hackathon (01/2019 - 01/2019)
Bronze Award (Top 15 Ranks)

Recognizing You Award (02/2019 - 12/2019)
Verizon

LANGUAGES

English
Full Professional Proficiency

Tamil
Full Professional Proficiency

INTERESTS

Playing flute, chess, participating in hackathons, solving mind games