



Vijayarajan Sankaranarayanan

Data Scientist

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6+ years of experience in Analytics and Data science processes. Passionate to solve real-world business challenges using Machine & Deep Learning Techniques. Experience in building and deploying AI models in local servers & cloud platforms such as Azure, AWS.

HIGHLIGHTS

Machine Learning

Deep Learning

Computer Vision

NLP

Visualization

Marketing/Promotional Analytics

TECHNICAL SKILLS

Fields	Predictive Modelling, Computer Vision, NLP	Machine Learning	Regression, Classification, Decision Tree, SVM, Clustering, Ensemble
Deep Learning	CNN, RCNN, YOLO, RNN, LSTM, Encoder/Decoder, Transformer, BERT	Database	MSSQL, Oracle, DB2, MySQL, MongoDB
Applications	SAP, IBM Data Stage, IBM Websphere, Docker, PowerBI, Tableau	Statistical Language	R, Python
Web Frameworks	Flask	Cloud Platform	GCP, Azure, AWS

WORK EXPERIENCE

Data Scientist

Kyyba India (P) LTD

12/2020 - Present

Chennai

Achievements/Tasks

- Worked on nitrogen deficiency detection across large cornfields using Agri-Drones using aerial object detection for localized manure spraying
- Designed and implemented Sentiment Analysis of CAHPS data using BERT model to analyze the feedback given to the associated providers under the HMO and PPO plans of the US-based insurance company
- Working on projects like building a customer churn prediction model for an Insurance client

Data Scientist

Cognizant

09/2018 - 12/2020

Chennai

Achievements/Tasks

- Developed and deployed an end-to-end Machine learning solution for a healthcare product in an on-premise server
- Developed predictive models for health plans to analyze member behaviour for focused outreach interventions leading to improved quality of care and member satisfaction
- Replaced existing predictive solution with end-to-end automation and used both supervised and unsupervised for final prediction. Improved the performance parameter by 25%

IT Analyst - Data Science

Tata Consultancy Services

06/2014 - 09/2018

Chennai/London

Achievements/Tasks

- Worked as an Analyst and Lead for a UK based retailer client (M&S), built predictive models and NLP based solutions
- Worked on Marketing and Promotion / Store / Category Analytics to bring out insights. Have experience working in SAP systems and visualization tools like Power BI
- Worked on projects with use cases like image captioning for a fashion product, market basket analysis for cross-selling and promotional sales and customer segmentation

PROJECTS

CAHPS - Feedback Analysis

- The objective of the insurance organization is to provide the best possible healthcare to its members. By reviewing the feedback from the members about the providers(Physicians/Labs), the insurance organization would be in a position to provide a better quality of service
- Using CAHPS feedback data, have developed a Sentiment analysis model using BERT to review the associated providers of the insurance company under the HMO and PPO health plan

Nitrogen Deficiency Detection

- Worked on POCs in Agricultural Domain
- Designed and implemented object detection model for nitrogen deficiency detection across cornfields
- Co-ordinated with IoT team on nitrogen deficiency detection using Agri-Drones using aerial object detection for localized manure spraying

ClaimSphere™ Quality Improvement Predictive Analytics (QIPA)

- Worked on development and deployment of predictive modelling for Cognizant's Predictive Analytical Solution that enables health plans to improve regulatory compliance and analyze member behaviour for focused outreach interventions leading to improved quality of care and member satisfaction, and saving vital healthcare dollars
- Used supervised (Xgboost and Random Forest) and unsupervised (Clustering) machine learning models to find the probability of becoming complaints and stratifying the members into different deciles

Vendor Funded Promotion Sales

- Worked for retail domain on analyzing the speech/conversation data between the customer and support people to understand the reason for the lag in sales for a particular region, competitors and best marketing approach in that region
- Have used NLP use cases like Speech Separation, Automatic Speech Recognition, Spell corrector and Keyword Spotting

EDUCATION

○ Bachelor of Engineering Anna University

08/2010 - 04/2014

Chennai

ARTICLES AND CODE REPOSITORIES

○ Publications

Towards Data Science and Analytics Vidhya

Tasks/Achievements

- Have been added as an author of Towards Data Science and Analytics Vidhya. Have published articles on computer vision, feature engineering. (Medium - <https://medium.com/@vijayarajan.s>)

○ Code Repositories

Github

Tasks/Achievements

- Have actively participated in multiple competitions in Kaggle to put forth my analysis and ideas. (Github- <https://github.com/vijayarajans92/>)

HONOR AWARDS

Above and Beyond

Cognizant

- Received 'Above and Beyond' award at Cognizant for creating an end-to-end data science solution on stratifying the members for the outreach programme
- The health plan spends \$25 to \$40 per person for the outreach programme. Stratifying the members help health plan to save millions of dollars

Certificate of Merit

TCS

- Received 'Certificate of Merit' at TCS for the contribution towards the client relationship

CERTIFICATES

IBM Applied AI

This program involves machine learning, data science, natural language processing, image classification, image processing, IBM Watson AI services, OpenCV, and APIs