

VIDWATH R HEBSE

email: vidwathrhebse@gmail.com mobile: 9482204411

Career Objective

Building on the strengths of my domain knowledge (**Data Science**) and other concepts, my objective is to help business and community together to enhance the common good. To address the issues of my domain interest areas and the organization employed in - by combining the skills of the latest technologies to the field for achieving better quality performance, timely completion of projects undertaken and enhanced performance for the data science process.

Experience Summary

- Over 3 years of experience in Data driven modelling Applications.
- Extensive working experience in R, Machine Learning.
- Involved in the full development and implementation of projects using R, python and R Shiny projects.
- Hands on experience in integrating data science model in deployment.
- Worked with Linux Server for deploying the ML models into DEV and PROD.
- Hands on Experience on Docker, AWS.
- Hands on Experience on preparing documents and automated reports using R Markdown and Jupyter Notebook.
- Good working experience on R Studio, Spyder and Jupyter Notebook.
- Good understanding of Object Oriented Programming like Core Java, Python.
- Good knowledge on working in Linux File systems.
- Have excellent analytical, logical and programming skills.

Technical Skills

Operating Systems	Ubuntu, WINDOWS
Programming Languages	R, Python, Java
Development Tools / IDE	Intellij, R Studio, Jupyter Notebook
Scripting/Markup Languages	HTML, JavaScript.
Build Tools	Maven

Educational Qualification

Program	Institution	CGPA/%	Completion Year
M.Tech in Computer Science.	VTU, Belgaum	75	2015
B. Tech in Computer Science.	VTU, Belgaum	78	2013
Class XII [Karnataka-PUC]	MDF Independent, Sagar	79	2009
Class X [ICSE]	NRS, Konandur	67	2007

Professional Profile

Current Employer:	Honeywell Technology Solutions
Designation:	Data Scientist
Date of Employment:	March 2018 – Till Date.
Previous Employer:	Evive Software Analytics Pvt Ltd.

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Designation: Jr. Data Scientist

Date of Employment: June 2015 – December 2017

Project Details

Adverse Drug Reaction – NLP (June18 – Till Date)

Client: Honeywell Technology Solutions

Role: Data Scientist

Team size: 1

Description:

To automate the segmentation of Tweet into either ADR or NON-ADR, on the basis of Drug, Symptom and Effect mentioned in future. Modelling the tweets data from twitter using GloVe embedding and multiple ML algorithm like Naïve Bayes, SVM, Logistic Regression as well as using Deep Learning algorithms like LSTM and CNN to choose the best performing model.

Responsibilities:

- Understanding business domain and process flow.
- Designing the process to build the modelling approach for Machine Learning and Deep Learning.
- Prepared a Notebook on Model Details.

Environment: Jupyter Notebook, Python.

Fan Motor Degradation (March 18 – June 18)

Client: Honeywell Technology Solutions

Role: Data Scientist

Team size: 2

Description:

Modelling the fan speed to detect the degradation in the efficiency of the fan. Fan is an integral part of AHU, by predicting the fan degradation we can reduce the cost by timely updating or replacement specific parts of a fan.

Responsibilities:

- Understanding business domain and process flow.
- Designing the process to build the ML model.
- Implemented multiple ML models like Random forest and linear regression on various understandings.
- Prepared a report on Model history.

Environment: R Studio, R.

Deep Learning on AWS GPU (Nov 17 – Dec 17)

Client: Evive Software Analytics Pvt Ltd.

Role: Jr. Data Scientist

Team size: 2

Description:

Idea was to improve the performance of a CNN model built using keras for High cost surgery. Prepared the environment on AWS by installing relative packages to run the Keras project, also implemented docker to transfer the code and model on AWS.

Responsibilities:

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- Setting up the AWS GPU Machine.
- Installing relative packages and codes on AWS.
- Designed the project workflow.
- Implemented the project on GPU.

Environment:

Python, Jupyter Notebook, AWS GPU, Docker.

Deep Learning : Keras for High Cost Surgery

(July 17 – Oct 17)

Client: Evive Software Analytics Pvt Ltd.

Role: Jr. Data Scientist

Team size: 2

Description:

The idea was to write a deep learning reusable code in python to build the keras model for High cost surgeries like Back, Knee, Neck etc., to improve the model performance and by reducing the false positives.

Responsibilities:

- Designing the architecture for Keras modelling.
- Worked on implementing python code.
- Built models for all the second opinion surgeries.
- Prepared a comparison report to validate why deep learning is better.
- Pushed the model to production.
- Provided KT to fellow colleagues on the application and its functionality.

Environment:

Python, Jupyter Notebook, Deep learning, Keras, Tensorflow.

High Cost Surgery Prediction using Regression

(April17 – July17)

Client: Evive Software Analytics Pvt Ltd.

Role: Jr. Data Scientist

Team size: 2

Description:

Designed a machine learning pipeline to predict whether patients having certain chronic illness will go for a surgery in near future. Developed regression model using GLMNET package for classifying the person to have disease or not using health data for disease prediction and classification. Achieved an average ROC-AUC of 0.83.

Responsibilities:

- Designed the problem-solving strategy.
- Developed the pipeline for implementing the problem.
- Wrote the generalized R code to solve the problem for all Second opinion surgeries.
- Developed the R over Http to deploy model on DEV.
- Recorded the performance metric for all the models and generated the report.

Environment:

R, Rstudio, GLMnet, Lasso, Data cleaning and transformation.

Price Transparency Modelling

(Jan17 – March17)

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Client: Evive Software Analytics Pvt Ltd.

Role: Jr. Data Scientist

Team size: 2

Description:

Designed a machine learning pipeline to predict whether patients will undergo either CTScan, MRI, XRAY in near future. Developed regression model using GLMNET package for classifying the person to undergo Any Scan's or not using health data. Achieved an average ROC-AUC of 0.79.

Responsibilities:

- Designed the problem-solving strategy.
- Developed the pipeline for implementing the problem.
- Wrote the generalized R code to solve the problem for all Second opinion surgeries.
- Recorded the performance metric for all the models and generated the report.

Environment:

R, Rstudio, GLMnet, Lasso, Data cleaning and transformation.

Procedure Pathway Analysis 16)

(Sept 16 – Dec

Client: Evive Software Analytics Pvt. Ltd.

Role: Jr. Data Scientist.

Team size: 4

Description:

Developed a time sensitive, automated framework to analyze disease progression from initial diagnosis. Used machine learning algorithms to intervene at the right time to avoid complication and emergency hospital visits. Successfully implemented the algorithm to monitor and analyze the progression pathways of more than 30 diseases

Responsibilities:

- Analyzing the requirement of the project.
- Designing the pipeline for data cleaning and transformation.
- Built logistic regression model for few diseases.
- Involved in code review and model review.

Environment:

R, Rstudio, GLMnet, Lasso, Data cleaning and transformation.

Kibana Dashboard for Benefits Quiz

(July 16 – Aug 16)

Client: Evive Software Analytics Pvt. Ltd.

Role: Data Analyst.

Team size: 1

Description:

Creating, Maintaining and building dashboard in kibana to understand the user behavior on quiz through multiple bar, pie and map visualization.

Responsibilities:

- Inserted the processed data into elasticsearch and created index specific to it.
- Created an interactive dashboard by using the index created which contains various visualizations such as pie chart, bar graph, heat map, etc. Involved in the workflow process required for the development of the

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application.

Environment:

Linux, Elastic Search, Kibana.

Data processing for Benefits Quiz

(May'16 -June'16)

Client: Evive Software Analytics Pvt. Ltd.

Role: Data Analyst.

Team size: 1

Description:

Wrote an R script to parse the history json from elastic search and flatten it to CSV.

Responsibilities:

- Wrote an R script to parse the history json.
- Processed the data to create one row per user csv with details about quiz and merged with eligibility and census.

Environment:

Linux, R, R Studio.

R-markdown Project

(Jan'16 - April'16)

Client: Evive Software Analytics Pvt. Ltd.

Role: Data Analyst.

Team size: 1

Description:

R markdown script to generate an automated report for all the evive products.

Responsibilities:

- Designing and development of the report.
- Wrote R markdown project to get reports of various Evive products.
- It's an automated pdf report generator which is designed to generate report based on Web History and Medical Claims to get details about client's population.

Environment:

Linux, R, R Studio, Latex, Rmarkdown, ggplot2.

R-Shiny Project

(Oct'15 - Dec'15)

Client: Evive Software Analytics Pvt. Ltd.

Role: Data Analyst.

Team size: 1

Description:

R shiny project to generate an state wise graph of USA to display doctor details with respect to their expertise.

Responsibilities:

- Created R-shiny project using NPI registry to visualize doctor details with respect to geography.
- Used zipchloropeth for displaying state wise distribution of Doctor details in USA.

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Environment:

Linux, R, R Studio, Zipchloropeth, R shiny.

Utility Scripts in R

(July'15 - Sept'15)

Client: Evive Software Analytics Pvt. Ltd.

Role: Data Analyst.

Team size: 1

Description:

Set of utility functions that are most suitable for the data which Evive has : basically to transform, clean and impute.

Responsibilities:

- Wrote R utility scripts that will be used more frequently for data processing.
- Like reading, writing any formats of data, impute NA's etc.

Environment:

Linux, R, R Studio.

POSITIONS OF RESPONSIBILITY

Book club Coordinator

(2015-17)

- Conducted book clubs on R (1. R for Data science - 2017, 2. Advanced R - 2015)

Hackathon Coordinator, Evive

(2017)

- conducted and coordinated a hackathon event in shivamogga by Evive, which was intended for grooming the students with latest technological skills as well as to help them in connecting to industry.

Interviewer for Evive.

(2015-17)

- Had interviewed more than 1000 students in more than 10 colleges including NITK, suratkal and VIT, vellore.

Personal Details

Date of Birth : 06 June 1992
Sex : Male
Marital Status : Single
Languages Known : English, Kannada and Hindi.
Hobbies : Sports, Agriculture.

Declaration

I, Vidwath R Hebse, hereby declare that the above specified details are true and correct to the best of my knowledge and belief.

Date:

Place: Bangalore

(Vidwath R Hebse)

Signature of the Candidate