**Harish C Inani**

Phone: +91 9886724944

Mailto: harishinani@gmail.com

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Objective:

Looking for a new and challenging role, which would help the organization gain from my current skills and expertise, at the same time help me widen my skill and knowledge base, thereby achieving the twin benefit of attaining the organizational objectives as well as personal career advancement.

Professional Summary:

* Having **4+ years** of experience in Data Science and Machine Learning techniques with overall 14 years of industry experience.
* Performed large-scale data analysis and developed effective statistical models through various regression and classification algorithms.
* Drove pragmatic approaches in solving key business problems by utilizing various supervised and unsupervised machine learning algorithms.  
  Delivered end to end Analytics – build, train and deploy the necessary models, segmentations and decision algorithms to support business users.
* Delivered projects out of Natural Language Processing such as Sentiment Analysis.
* Created analytical data-set from multiple sources including API based data access and build Plotly based Dashboards.
* Proficiency in **Python programming, Regular expression, Exception handling and advanced python concepts**
* Hands-on experience on **Supervised (i.e. Regression, Classification)** and **Unsupervised (i.e. Cluster, Dimensionality reduction) algorithms** and solved complex business problems using these algorithms.
* Extensive knowledge of techniques like **Data Manipulation, Data Cleaning, Exploratory Data Analysis (EDA), Deep Dive Analysis** and other Data handling techniques.
* Good at crafting visualizations using Python (Seaborn, Plotly).
* Helped **Pharma and Retail** business partners to run their day to day operations by providing analytical solutions.
* Excellent team player with a unique blend of Technical, Functional and Qualitative skills.
* Possesses excellent communication and interpersonal traits with talent for problem solving through reasoned thought process.

**WORK EXPERIENCE**

* Currently Working as a Senior Software Engineer in IQVIA Technologies, Bangalorefrom Apr 2012 to Till Date.
* Worked as Sr Software Engineer at Ness Technologies from Sep 2009 – April 2012.
* Worked as Software Engineer at Consona Corporation from Jan 2008 - Sep 2009.
* Worked as Software Engineer at Aryaan Solutions from June 2005 - Jan 2008.

Tools & Technical Expertise:

|  |  |
| --- | --- |
| **TOOLS** | Python, Visual Studio for Spark Deployment |
| **TECHNIQUES** | K Means, Agglomerative, DTC, RFC, Logistic Regression, Random Forest, Naive Bayes, Convolutional Neural Networks, Keras, TensorFlow |
| **DATABASES** | SQL Server |
| **VISUALIZATION** | Seaborn, Plotly, Matplotlib |

|  |
| --- |
| **Work Experience:**  **Project: I**  **Project:** Identifying Right Patient for Clinical Trials Targeting (Patient Segmentation)  **Project Description:** For any new drug to release to market it must go through Clinical Trials process. As part of Clinical Trials right patients / subjects should be selected to perform the study. This model helps in identifying the right subjects at an early stage of Clinical Trials.  **Role :** Associate Consultant  **Environment/Technology :** Python, SQL, Patient level segmentation, K Means, Agglomerative  **Statistical Methodology :** K Means, Agglomerative  **Responsibilities :**   * Performed the deep dive analysis, on the data files received from business and extracted insights out of them. * Used advanced Python/SQL coding for extracting, aggregating, structuring large volumes of transaction level, customer level and other significant levels of data for different time periods * Designed the Test-Control methodology to evaluate the performance of the retail store at various levels in USA market. * Created Trend using historical and current data to improve and empower fundraising, volunteer and voter targeting and mobilization campaigns. * Involved in building Cluster Analysis to discover distinct groups in the customer bases and then Used **K Means and Agglomerative techniques** to create the clusters and presented cluster groups to relevant stake holders. * Performed Consumer Analysis by considering set of customers as Test and Similar featured customers Control but unexposed to campaign and did the matching on behavioral basis to see how the particular product reacted in market with respect to Test and Control Patients (1:1match). * Determine the **effectiveness of the campaign** by comparing the additional revenues generated by the test group with those generated by the control group. * Created a matrix at each bucket level with the result and performed **Hypothesis testing and z-test 2 samples** to check for significance. With test control matched pool data developed model to forecast customer churning behavior using **Logistic regression**. * Identified individuals who would be positively influenced by ads, mailings, phone calls and other outreach efforts.   **Project: II**  **Project Name :** Predicting the Right Insurance Plan for the Patients  **Project Description :** In US, patients during their visit to Provider (Doctor / Hospital) provide their Insurance details for billing. Patients need to have best fit plan to cover all medical expenses. This helps Insurance companies suggesting the right insurance plan for the patients based on patient health background, coverage across hospitals, patient liability, region, age, family history and etc.  **Role :** Associate Consultant  **Environment/Technology :** Python, CSV, DTC, RFC  **Statistical Methodology :** DTC, RFC  **Roles & Responsibilities:**   * Decision Tree and Random Forest model was used as baseline model. * **Confusion Matrix** is created to summarize the prediction results with count values and broken down by each class. * Validated the model using grid search CV in order to create best fit model for the entire data-set.   **Project: III**  **Project Name :** Sales Representation Feedback Analysis.  **Project Description:** Medical / Pharma Representatives on their visit to Doctor’s / Provider’s office suggest new drugs not available in market recently released by Pharma companies. This model helps in converting the conversation between Medical Provider and Medical Representative from speech to text and by performing the sentiment analysis analyzing whether the Doctor shall promote the drug suggested by Pharma Representative.  **Tools :** Python, SQL  **Techniques :** Logistic Regression, Random Forest, Naive Bayes  **Responsibilities**:   * Data cleaning is done by removing Hash tags, Html tags and special characters. * Stemming, stop word removal, Tokenization and Lemmatization are performed in the phase of text pre-processing. * Snow ball stemmer technique is used for stemming. * Bag of words and TF-IDF techniques are applied. * Identified the sentiment of promotional campaign by using Naive Bayes algorithm. * Created dashboards, associated with sentiment analysis and automated the reports   **Project: IV**  **Project :** Measuring the size of fetus during early stages of pregnancy  Currently, measurements of fetal head circumference and abdominal circumference (AC), for instance, are estimated manually from ultrasound images by skilled clinicians. These parameters are useful benchmarks to gauge gestational age, but the process can be time consuming and laborious. To get around those problems, the research team has developed a machine learning method that takes into account clinicians’ decisions in order to automate the estimation process.  Technology : Python, Open CV  Techniques : Convolutional Neural Networks, Keras, TensorFlow  **Responsibilities :**   1. Extracted images through pixel link cameras and stored images in the local machines 2. Identified the image features and extracted the spots that are required to identify the fetus. 3. Extracted features and used features to train the models. 4. Run a CNN Model to predict the weight of the fetus.   Education:  BE from UBDT College Of Engineering (Davangere), Kuvempu University.  Personal Details  Passport : Active  Visa Status : Active B1 Visa  Father’s Name : Ramesh Chandra Inani  Address : Flat No C1, Block 2, Amulya Park Apt, 5th Main, NRI Layout, Kalkere Main  Road, Ramamurthynagar, Bangalore -560016  Signature (Harish C Inani) |
|  |