

# BIJAYALAXMI SAHOO

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## PROFESSIONAL SUMMARY

Data driven professional with 9+ years of total experience across retail and healthcare industries with functional and technical experience in Advanced Analytics, Data Science and Machine Learning, Statistical programming to generate value added insights.

## EDUCATION

### PG Diploma in Data Science -2018 CGPA: 3.5/4

International Institute of Information Technology (IIIT), Bangalore, Karnataka

### B. Tech, Computer Science Engineering - 2013 CGPA: 8.1/10

International Institute of Information Technology (IIIT), Bhubaneswar, Odisha

## KEY SKILLS

- Expertise in coding Machine Learning algorithm using **Python** programming language. Hands on experience in **Scikit-Learn, NumPy, Pandas** library.
- Hands-on experience in Supervised ML algorithm such as **Random Forest, Decision tree, Gradient Boosting, SVM (Support Vector Machine), Linear Regression, Logistic Regression, KNN**
- Good experience in implementing unsupervised clustering algorithms such as **K-means clustering, DBSCAN, Agglomerative** clustering
- Experienced in implementing dimensionality reduction techniques (**PCA, t-SNE**) and ML model validation/performance techniques (**Cross-Validation, ROC**)
- Experienced in Artificial Intelligence techniques such as **NLP (Natural language Processing)**. Hands-on experience in various aspects of NLP such as **Feature extraction, Sentiment Analysis, Word clouds, Topic modelling, Named Entity Recognition, Data mining, Text summarization, handling regular expression, collocations**, etc. Extensive experience with working on **NLTK** library for NLP
- Experienced with querying relational databases (e.g., **SQL**)
- Good knowledge on creating dashboard using **QlikSense**, and **Tableau (LinkedIn certified)**

## PROFESSIONAL EXPERIENCE

### Novartis Healthcare

#### Senior Analyst – Complex Quant

Hyderabad, India

Dec 2019 – Present

- Developed Random Forest model on quantitative datasets to automate Key Driver Analysis (KDA) to understand important metrics in satisfaction scores of a drug/brand/product in the market.
- Developed unsupervised clustering models using K-means clustering, Hierarchical, DBSCAN techniques to perform segmentation on quantitative data to create attitudinal segments of customers to understand their perceptions of a product and usage patterns/behaviors.
- Used Natural Language Processing techniques on qualitative pharmaceutical datasets (unlabeled, textual) to analyze and extract insights. Drug/Brand/Product satisfaction and dissatisfaction is analyzed by performing sentiment analysis on patient feedback/response. Insights are generated and themes are analyzed from Qualitative interview transcripts by performing Named Entity Recognition, data mining, word cloud, text summarization, Information Retrieval, etc.

### Infosys Ltd

#### Senior Associate Consultant

Bangalore, India

Sep 2015 – Nov 2019

- Identified the high-risk diabetic patients through risk stratification so that the payer can decide what are the right intervention programs for the high-risk patients. The analysis involved categorizing patients into different levels of “comorbidity” using Random Forest.
- Worked as FlexPLM consultant with US based luxury department store chain, apparel, and home goods company to develop the change requests on FlexPLM tool, analyzed customizations, enhancements and provided solutions.

### ITC Infotech India Ltd

#### Associate IT Consultant

Bangalore, India

Aug 2013 – Sep 2015

- Worked as PTC FlexPLM consultant responsible for development and implementation of PLM solutions for multiple clients across domains. Designed and implemented complex custom reports on different modules of FlexPLM tool.
- Handled configuration management activities as a Configuration Controller on FlexPLM tool.