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Santosh Kumar Sahu premium O Featured

Data Scientist / Analyst, Architect, Software Designer with 15 years of experience in Data Science / Analytics, Mobile, Web, Cloud, and Desktop.

- Current Designation: Research Executive Data Science
- Current Company: K2o Consulting Pvt Ltd
- Current Location: Bengaluru / Bangalore
- Pref. Location: Bengaluru / Bangalore, Chennai, Hyderabad
- Functional Area: Analytics & Business Intelligence
- Role: Analytics Manager
- Industry: KPO / Research / Analytics
- Date of Birth / Gender: 01 Mar 1979 / Male
- Marital Status: Married
- *Total Experience*: 15 Year(s) 0 Month(s)
- Annual Salary: Rs 22.45 Lac(s)
- Notice Period: 15 Days or less
- Highest Degree: PG Diploma [Data Science]
- Address: Bangalore

• Key Skills: Data Science/Analytics, Statistics, EDA, Linear / Logistic Regression, Clustering, SVM, Tree, Time Series, Naïve Bayes, PCA, NLP, AWS, GCP, Azure, R, Python, NumPy, Scikit-Learn, Pandas, C#, WPF, WCF, MVC, Web API, Core Java, Flask, Xamarin (Android & IOS), Windows Phone

Verified: Phone Number | Email - id

ID: 56e5c7260397dc3177Last Active: Oct-Dec 2019Last Modified: Oct-Dec 2019

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# Summary

Data Scientist / Analyst, Architect, Software Designer with 15 years of experience in Data Science / Analytics, Mobile, Web, Cloud, and Desktop. Creative, Innovative, Analytical and results driven technology leader in leading COE / R&D team and providing solutions to critical and complex products.

# **Work Experience**

K2o Consulting Pvt Ltd as Research Executive - Data Science

May 2018 to Till Date

Research Executive (Data Scientist), K2o Consulting Pvt Ltd, Bangalore

Client: GANA LLC

Recommendation system in Health Care: Problem Statement: Recommendation of product with high efficacy and low side effects. Our Machine Learning approach is to identify the product with high efficacy and low side effects by applying clustering models on the data. Firstly, the data needs to be processed before applying for clustering model. The clustered output thus formed shall be analysed based on various clustering techniques. The prediction of the best product can be searched through the clusters (available in the form of prediction table). Approach: Clustering Techniques - K-Means, DBSCAN, Fuzzy C Means, KNN, PCA, LVM, Data Aggregation Techniques like Normal Distribution. Language: Python,

matplotlib, NumPy, SciPy, Scikit Learn etc.

Aspect Based Sentiment Analysis: Problem Statement: Finding the Aspects / attributes of the product, and their sentiment: Natural Language processing (NLP) is being used to extract various aspects from user review comments. Users' review contains lot of information in terms of free-text data consisting mainly Ailments, Positive effects, Negative effects, and Effectiveness with sentiments, which have an enormous opportunity for analysis, which can add value to recommendation system. Approach: Pre-processing, POS, Opinion Words Extraction, Polarization for Opinion words, Opinion words aggregation, summarization. Language: Python, matplotlib, etc.

Managing data across stakeholders using Blockchain: The Consumers, Research Institutes, Dispensaries and different other stakeholders and participants makes use of platform as a common ground to shares and collect information on various products and related information based on their need and usage. Such kind of information need to be managed in protected and permissioned environment. The best approach using Blockchain Technology which enables Data Immutability, Transparency, Permissioned Access and Availability among different stakeholders and participants within Ecosystem. Platform / Languages: Ethereum, Solidity, NodeJS, etc.

Science Architect Internship, Niramai Health Analytix, Bangalore

Niramai Health Analytix

Breast Cancer Detection in Health Care: Problem Statement: A new cancer screening software that uses machine intelligence over thermography images to enable a low cost, easy to use, portable solution and requires minimal human supervision. Our solution can detect cancer at a much earlier stage than traditional diagnostic methods and selfexamination and can therefore improve survival rates. Our method of breast cancer screening can detect tumours 5 times smaller than what clinical exam can detect, is non-contact, painless and free of any radiation, apart from being low-cost, and universally accessible. With our solution, women of all age groups can undergo frequent screening without any sideeffects. Approach: Clustering Techniques -Multi Level classification algorithms. Language: MATLAB, Python, matplotlib, NumPy, SciPy etc.

Real Estate Company, Bangalore

Recommendation of housing projects for a real estate company: Problem Statement: Recommendation of housing project a customer based on customer's need. The customer need may be location, number of BHK, locality, distance from main road, distance from (school, college, hospital, railway station, airport, etc), customer budget, reason of investment (staying investment), city, type of project (ongoing or ready to occupy), flat facing, profession, etc. The k nearest Neighbours algorithm to find the nearest matching housing project based on the customer needs. Approach: Supervised learning algorithm- KNN. Language: Python, matplotlib, NumPy, Scikit Learn etc.

Projects, IIITB, Bangalore

Uber Demand Supply: Problem Statement: Make the marketplace supply demand healthy, by virtue of which potential revenue loss would be stopped by analysing 6700+ customers' request data; Identified time slot (early morning

#### IBM India Pvt Ltd. as Application Architect

Jan 2017 to Jul 2017

Application Architect, IBM

Client: Popular Society/Bank in UK

Architected a feature of functioning of few functionalities (Intra transfer of current accounts and Savings accounts, get all accounts and balances) while the SAP is down. During periodic maintenance SAP systems, the basic functionalities should not be affected.

Architected a feature of Quick balance, you can view your balances without logging to the app using Touch ID. Customers no need to login in order to view the balances.

Visual snapshot income Vs spending, helps customer to understand their spending pattern.

Integration with analytics help users to invest in proper product to get higher returns, due to which the customers using the new products. Part of the open banking solution.

## Mindtree Ltd as Senior Architect

Mar 2015 to Nov 2016

E-Commerce books App / US Client: Mobile app which replicates the ecommerce functionalities available on web channel. Create Account / log in / basic profile management, Browse and Search capabilities for products by title, category and other factors, search functionality to include filter and sort, Purchase through a secure cart funnel.

Application Architecture, Requirement analysis, Technical solution approach for Cart Management, Search, Service Integration, Authentication, Payment gateway.

Redesign Service API for mobile.

RFP submission, and Estimation, and technology fitment.

Technologies - C#, Xamarin iOS, Xamarin Android

Inspection App / US Client: Inspection need to be carried out by Inspector for each milestone for a Construction company. Various report like Pass/Fail, Log report will be generated, and get synched with server.

Architecture of the application, Requirement analysis, technical solution approach for Auto Save, Sync, Service

Integration, SQLite integration, offline / online for the application, API design.

RFP submission, and estimation, technology fitment.

Technologies - C#, Xamarin iOS

Rugged Application / European Client: The platform to convert old Windows Mobile/CE application to Android application. Understanding the Architecture.

Best practices and challenges while doing the porting.

Getting the KT from client.

Technologies - C#, Xamarin iOS

Field Sales Execution App / US Client: This app is used to provide an easy way for Sales Managers to share documents posted in SharePoint for Field Sales Execution teams. Increased Productivity, Real time information about products Architecture of the application.

Requirement analysis, technical solution approach for Sync of documents, Service Integration, SQLite integration Architected Inspection offline / online for the application.

Helping the team for API design.

Technologies - C#, Xamarin iOS, Windows Phone

Flight Attender App / Internal App: This application is mainly used by Flight Attender for passenger requests. All the requests made by passenger like water, juice, etc., will come as a notification to attender. Passenger can raise the request using Watch also.

Architected the solution for show casing iOS watch capability.

Involved in requirements gathering and providing technical solutions from stack holder.

Presented demo to on a weekly basis.

Technologies - C#, Xamarin iOS, Watch

Bank Android Watch App / Internal App: This application is mainly used by customer of bank to do transactions using android watch. Integrated with pattern recognition for authentication, Speech recognition to do money transfer.

Architected the solution for show casing Android watch capability.

Involved in requirements gathering and providing technical solutions from stack holder.

Presented demo to on a weekly basis.

Technologies - C#, Xamarin Android, Watch

Reservation Mobile Application / US Client: The reservation application thru which users can do reservations, cancel reservations, modify reservations, search the properties, log in with own credentials.

KT from Client for maintenance / support, interaction with other vendors maintaining the server stack.

Trained the team for UWP.

Integration of Application insight, hockey app

Technologies - C#, Windows 8.1, Windows 10 (UWP)

Rugged In Field / Queue Busting / Sales Force Automation - US Client:

Rugged In Field - This application is mainly used to manage on field servicing tasks. The user of this application are the on field service engineer who will perform servicing by reaching to customer location, finish the task and get the payment done for servicing.

Queue Busting - This application is mainly used to reduce/manage the queue during check-in or checkout process in hotels. user of this application are the front desk staffs of the hotel who will collect the information from customers regarding their booking to create/update booking details, to help the customers to finish their check-in and checkout process seamlessly.

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# **Education**

- UG: B.Tech/B.E. (Computer Science and Engineering) from Berhampur University in 2002
- PG: PG Diploma (Data Science), Correspondence/Distance Learning from IIIT-Bangalore in 2018
- Other Qualifications/Certifications/Programs:

PG Diploma in Advanced Computing

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#### IT Skills

Skill Name VersionLast Used Experience

Excel, Tableau, R, Matplotlib
Xamarin (Android & IOS), Windows Phone
MVC.Net, ASP.Net, WCF, and REST
Sqoop, Hive (Learning), Spark
R, Python, NumPy, SciPy, Pandas
Scikit Learn, Pandas
C#, Core Java, C++
(SDLC), Agile

3 Year(s) 0 Month(s)

# Languages Known

#### LanguageProficiencyReadWriteSpeak

English Expert Hindi Expert Oriya Expert <u>^ Back to Top</u>

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# **Affirmative Action**

• Physically Challenged: No

# **Work Authorization**

- Job Type: Permanent
- Employment Status: Full time

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