

## SABARISH R

2/302, Kanakupillaikadu, Uthamasolapuram, Salem-636010

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### Career Objective:

Team player with strong analytical and problem-solving skills. Looking to apply hands on experience utilizing predictive analytics and classical modelling techniques for statistical inference as a **Data Scientist** with a **Three years and eight months** data science work experience and strong programming skills.

### Profile Summary:

- ✓ Five years and eight months of **overall experience in IT Industry**
- ✓ Three years and eight months of experience in Data Science, using **Python** and **R**.
- ✓ Hands on experience in **Data Analysis** and building **Predictive Modelling**
- ✓ Hands on experience in building **API applications** using **Flask**, client & server interaction using requests and responses
- ✓ Hands on experience in **Docker** creation and deployments over **Linux/Windows** servers
- ✓ Hands on experience in **GitHub, GitLab** source management and version controls
- ✓ Experience in Big Data Cluster setup, **Hadoop HDFS** Administrator over Apache **Ambari** and able to configure **Hive** data warehouse for handling large scale data
- ✓ Experience in Data query analysis using Hive and Presto/TEZ, Data Visualization using **Metabase, Superset** and **Zoho Analytics**
- ✓ Two years of experience in Web development, using **ASP.NET** Framework, **SQL Server 2014**

### Key Skills:

<b>Programming Skills</b>	Python and R
<b>ML Modelling</b>	Regression Modelling, Decision Analytics, Cluster Modelling, Outliers Modelling, Predictive Modelling, Time series, Sentimental Analysis
<b>Software/Tools</b>	Docker, Spyder, Jupyter Notebook and R tool
<b>Repository &amp; Version Control</b>	GitHub, Gitlab
<b>Visualization Tools</b>	Superset, Metabase and Zoho Analytics
<b>Big Data Storage &amp; Warehouse</b>	Hadoop HDFS file system and Hive Data Warehouse
<b>Big Data Querying</b>	Presto and Hive
<b>Database</b>	MYSQL, ORACLE & PostgreSQL (basic querying, Python connections)
<b>Web Frameworks</b>	Flask and ASP.NET

### Professional Profile:

Company	Role & Experience
<b>Terafin Infotech Pvt Ltd (Chennai)</b>	Working as a <b>Data Scientist</b> from the year 2022(July) to till date, earlier worked as same role in <b>Nagalakshmi Tech Solutions Pvt Ltd</b> during the year 2021(September) to 2022 (June) as they formed new entity <b>Terafin Infotech Pvt Ltd</b> and later moved me to new entity
<b>eNoah iSolution India Pvt Ltd (Chennai)</b>	Worked as an <b>Associate</b> during the year 2017 (June)-2019 (April) and <b>Senior Associate</b> for the year 2019(May) to 2021(September)

### Projects worked:

<b>Title</b>	Tera Kollekt - Preferred session (NCBA, Stanbic Banks & Musoni Microfinance)
<b>Algorithms</b>	XGBoost Classifier
<b>Languages/ Tools</b>	Python, Flask and Jupyter Notebook
<b>Description</b>	Tera Kollekt is designed to create, follow, collect, report and close pending debt collection by the debt collector. The given data from bank has past Call/Mail/SMS history of customers and based on that need to identify the preferred session for Call/Mail/SMS to reach out the customer in efficient way & also to utilize the banking resources effectively

	For variable selection, Principle Component Analysis (PCA) for numeric, Multiple Correspondence Analysis (MCA) for categorical done & removed variables statically. Later model performed with 98 % accuracy and deployed in production for various banks
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<b>Title</b>	Tera Intelligence - Credit Scoring (Sidian Bank)
<b>Algorithms</b>	Random Forest Regression
<b>Languages/ Tools</b>	Python, Flask and Jupyter Notebook
<b>Description</b>	<p>Identifying the credit score for the customers using certain norms from the bank. Initially all the norms from the bank were identified and created the pipeline that converts rules into data, later using converted data model were trained &amp; optimized.</p> <p>Pipeline was the major feature, so even though new norms place in we can simply change it from the user end. The above model is simply 99.7% accurate since we've all the possible data in our pipeline created and new features can be added from the user end, and it reflects model accordingly.</p>

<b>Title</b>	Tera AXON - Reconciler (SBM Bank)
<b>Algorithms</b>	Artificial Neural Network (Sequential ANN)
<b>Languages/ Tools</b>	Python, Flask and Jupyter Notebook
<b>Description</b>	<p>Axon is an audit management system, which compares all business activity with bank financial records to avoid disputes in daily transactions. Automated reconciler system which predicts and matches daily basis business, bank records</p> <p>It matches the records and gives the prediction as a suggestion that the user can confirm. The above model leaned the pattern themselves and improving accuracy day by day using predictions confirmations which is around 67 %</p>

<b>Title</b>	Tera Intelligence - Revenue Analytics (Sidian Bank, NCBA Bank)
<b>Algorithms</b>	Data Analytics
<b>Languages/ Tools</b>	Python, Flask, Superset and Jupyter Notebook
<b>Description</b>	<p>Tera Intelligence is a suite of analytics helping banks to address their key risk and monitoring activities. The logic behind is to monitor banks revenue related transactions and notify the revenue loss, then the correction made by the bank to avoid the same, also provides weekly/monthly reports.</p> <p>The automated Pipeline which processes data in a certain interval and reflects the data changes to the respective data tables also provides interactive dashboards using Superset. So, monitoring can be easy in the bank end to avoid their loss in terms of revenue and useful for tracking their loss/gain.</p>

<b>Title</b>	Auto Dept Identifier - Bank Transaction Analysis
<b>Algorithms</b>	Decision tree classifier and Natural Language Processing
<b>Languages/ Tools</b>	Python, Flask and Jupyter Notebook
<b>Description</b>	<p>With a bank document provided as an input, extracting tables from PDF and providing a summary report with a pipelined model (trained with descriptions of various banks) inbuilt to categorise the descriptions as counter and other deposits and provide the user the overall report in a desired format.</p> <p>Auto dept identification which began with keywords, on further analysis and on client requirement, proceeded further where the pipelined model gave an accuracy of about 91%</p>

<b>Title</b>	eAnalyser - Bank statement analysis for loan approval
<b>Algorithms</b>	Random Forest classifier
<b>Languages/ Tools</b>	Python, Flask, Jupyter Notebook and Spyder
<b>Description</b>	<p>Analyzing the data provided by loan borrowers to predict their approval probability with an ML algorithm based on their previous statement history by considering top nine attributes and provide suggestions for the borrowers who aren't eligible.</p> <p>The above model gives loan approval on requested amount also What if the attributes need to be improved to approve the loan. Based on the business requirements provided and tuning the parameters, the model was accurate for about 86% which gradually increased from 75%</p>

<b>Title</b>	Predictive Maintenance and Smart Monitoring - Oil & Gas
<b>Algorithms</b>	Prophet, K-Means Clustering
<b>Languages/ Tools</b>	Python / R, Flask, Superset, Hive and Spyder
<b>Description</b>	<p>Smart monitoring Oil and Gas plant using a Machine Learning algorithm and notifying the users on its predicted live efficiency visually in the form of a Dashboard and let them know when the maintenance of the machine is to be done with smart predictions.</p> <p>The developed model for prediction initially gave an accuracy of about 65% which on further analysis and tuning resulted an accuracy of about 72%</p>

<b>Title</b>	eXenia - Hotel Management System
<b>Languages/ Tools</b>	Asp.net, Visual Studio 2015 and SQL Server 2014
<b>Description</b>	<p>A web-based application that allows the hotel management based on their role to handle all hotel activities online and an Interactive GUI to manage various necessary hotel management features that make this system very flexible and convenient.</p> <p>This application includes Front office, Housekeeping, point of sale and Banquet modules to capture hotel activities as well as employee's activities</p>

#### Education:

- ✓ Bachelor of Engineering in computer science (2013-17) from **Knowledge Institute of Technology**, Salem with an aggregate score of 7.07(CGPA).
- ✓ XII (2011-13) (State Board) from **G.H.S.S, Kakapalayam** (Salem) with 79.25%
- ✓ X (2011) (State Board) from **G.H.S.S, Kakapalayam** (Salem) with 87.6%

#### Personal Details:

<b>Father Name</b>	Mr. Rajendran M
<b>Mother Name</b>	Mrs. Selvi R
<b>Date of Birth</b>	17/06/1996
<b>Languages Known</b>	English and Tamil

#### Declaration:

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

**DATE:**

**PLACE:**

**(SABARISH.R)**