

# Suravi Mahanta

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## Profile

Applying for positions as Data Scientist / Machine Learning Engineer/ Data Analyst using Python in an organisation of repute.

## Technical Expertise

### + Machine Learning

- Regression
- Classification
- Clustering
- Principal Component Analysis
- Dimensionality Reduction

### + Deep Learning

- Artificial Neural Net
- Convolution Neural Net
- Recurrent Neural Net
- LSTM

### + Cloud / Analytics Platform

- Microsoft Azure Databricks
- Kaggle
- Anaconda
- IBM Watson



## Work Experience

Company: **Intone Networks**

Role: **Data Scientist**

Total Experience: **3 Years +**

Project: **BIGlynx Optimization Algorithm**

Description: Developing & implementing **machine learning models** through research and **analysis of data** to find **insights from data**.



## Highlights



**ORACLE®**  
**Certified Associate**  
Oracle Database 12c  
Administrator

- ❖ Presently working as Data Scientist in Intone Networks (BigLynx).
- ❖ Microsoft Certified **Azure Data Scientist Associate**.
- ❖ One year and four months of experience as Business Operations Associate with Accenture India Private Limited.
- ❖ Ability to create Azure Databricks **Resource, cluster, workspace, users, notebook, dataset** and can **query** different datasets from **DBFS**.
- ❖ Good understanding of ML tools/libraries like: **Tensorflow, Keras, Pandas, Numpy, Matplotlib, NLTK, SkLearn** etc.
- ❖ Use python and spark to scrape, clean and analyse big data set.
- ❖ Capable of designing **Predictive models Linear Regression, Logistic Regressing, Decision tree, SVM, KNN Random Forest and Gradient Boosting** algorithms.
- ❖ Design, develop, implement, and maintain databases to manage data analysis effort.
- ❖ Capable of designing deep learning algorithms like **CNN, RNN** etc.
- ❖ Capable of doing demand and Time series forecasting and reporting like **ARIMA, SARIMA, Exponential Smoothing, RNN, LSTM** etc.
- ❖ Capable in **improving model performance** of machine learning and deep learning algorithms by parameter tuning.
- ❖ Gather and analyse information, design and code data process and build predictive analytical models, formulate, and test hypotheses, contribute to the development and communication of recommendations.
- ❖ Research, Develop, implement new methods of measuring and analysing data sets and processes Good understanding in designing **dashboards** and reports using **Power Bi**.
- ❖ Expert in **Operational research**, Data Preparation, Data Cleaning, Data Manipulation, Data Pre-processing, and Data modelling task using Python in Anaconda, Microsoft Azure Databricks etc.
- ❖ Sound understanding in **Applied mathematics and statistics, NLP** (Natural Language Processing) and text mining.
- ❖ Identify right open source tools to deliver product features by performing research, POC and/or interacting with various open source forums.
- ❖ Basic understanding in Market Basket Analysis and Text Mining.
- ❖ **Oracle 12c OCA Certified** in Database Administration.



## Technical Skills

- |                         |                                   |
|-------------------------|-----------------------------------|
| • Data Analytics Tools  | Python, PySpark                   |
| • Cloud tools           | Microsoft Azure Databricks        |
| • Visualization tools   | Power Bi                          |
| • Programming Languages | Python, SQL, PL-SQL               |
| • Database Management   | ORACLE 11g, 12c, MySQL            |
| • Documentation tools   | Microsoft Office 2007, 2016, 2019 |
| • Operating System      | Windows 10 & 7, UNIX/LINUX        |



## Projects and Hands on

### ✓ Intone Networks as Data Scientist:

- ☐ In my current project, I have designed a machine learning classification algorithm for inventory and order management to do fastest delivery of goods using **PySpark** in Azure DataBricks MLlib libraries.
- ☐ Designed **Data Flow Architecture** for BigLynx, which is a Logistics-based company who help retailers to deliver goods in a smart and optimize way using Data Science concepts and algorithms.
- ☐ Designed **Regression Model** for shipping price prediction.
- ☐ Designed **ARIMA** Forecasting model for demand forecasting.
- ☐ Designing **Multivariant forecasting model** using **deep learning** to forecast Product Name and Inventory location based on past order history.
- ☐ Designing **Reports and Dashboard** using **Power Bi**.
- ☐ Designing **Classification** model for address authentication

### ✓ Accenture as Business Operational Associate:

- ☐ Interpreted data, analysing results using statistical techniques.
- ☐ **Developed and implemented data analysis, data collection** systems and other strategies that optimize statistical efficiency and quality.
- ☐ Designed **Reports and Dashboard** using **Excel**.

### ➤ Projects

#### 1. Inventory and order Optimization:

The objective of this project was to design a machine learning model which can classify the product available in inventory and then if any product is out of stock, then it will update the retailer for the same. To design this model, Machine learning **Random Forest** algorithm is used.

#### 2. Clustering of Orders:

There are lakhs of orders placed by a retailer, however, to process all the order at once is difficult task. So, to avoid that difficulty we tried to design a machine learning clustering algorithm to group similar order in one cluster. To design this model, Machine learning **K Means** algorithm is used.

#### 3. Demand and Sales forecasting:

It is an ARIMA forecasting model designed to predict future demand of products and amount of sales for next 6 months based on past data.

#### 4. Shipping Price Prediction:

This project is to predict shipping price of an order with multiple products to multiple locations based on historical data.

#### 5. Address Authentication:

It is time consuming to authenticate the same address for multiple times. So, the objective to this project is to learn the validation pattern based on historical data, so that if the customer use that address again then the system would automatically mark as valid.



## Academics

- **B.Tech** in Electrical and Electronics Engineering from BPUT, Orissa at GANDHI INSTITUTE OF ENGINEERING & TECHNOLOGY in 2016. (Secured CGPA - 7.85)
- **12<sup>th</sup> (Science)** from Kendriya Vidyalaya, Meghahatuburu, Jharkhand in March 2012. (Secured 76%)
- **10<sup>th</sup>** from Kendriya Vidyalaya, Meghahatuburu, Jharkhand in 2010 (Secured CGPA 8).

I hereby declare that the above written are true to my knowledge and belief.

Name: **SURAVI MAHANTA**