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**SUMMARY OF EXPERIENCE**

* Total of 5.5 years of experience in the **Analytics**, **ETL and Big Data** field of Information Technology.
* Experience in implementing End to End **Analytics** and **Business Intelligence** Project.
* Having good knowledge in designing and implementing Big data projects using Hadoop Ecosystem like **HDFS, Sqoop, Pig, Hive, Oozie, Map Reduce in Python**.
* Good Knowledge on **Python Flask** frame work and **Docker.**
* Excellent skills in Analytics Tools – **SAP Crystal Report 2013 and Enterprise 4, SAP Business Object Lumira** and **Tableau Desktop 10.3** well understanding of choosing a chart types and presentation design.
* Having basic knowledge on Azure Storage, Data Lake and machine learning.
* Good Knowledge of Internal Architecture of Hadoop, Pig, Hive and Hbase.
* Experience in writing **Pig/Hive UDFs** and **OOZIE** workflows.
* Having good knowledge on ETL Tool– **Data Process Logic**, **Synapse DPL.**
* Knowledge on **Data Warehousing Concepts** and have experience in design, development and maintenance of Data Warehouse/Database using **SAP Power Designer**.
* Knowledge on **Meta-Analysis** of Source and Destination.
* Expertise in analyzing customer needs and taking appropriate steps to implement them in the development Environment.
* Good Command on **SQL Server, MySQL** and **HBase** databases.
* Developing **Queries, Stored Procedures** according to the Transformations needed in the ETL Process.
* Knowledge on **Optimizing** the ETL flow.
* Having knowledge on **Linux shell scripting**.
* Worked as a **Product Owner** for **Synapse DPL Discovery and Portal**.
* Basic knowledge on **Linear regression, Logistic Regression, Naive Bayes, SVM, Decision Trees, Random Forest.**
* Good communication, presentation skills and ability to develop and align analytics solution for a Business Case and quickly adapt to the technical environment as a developer.
* Worked in the industry like **ERP**, **CRM, R&D, Health Care, Petrochemical, IT Infrastructure**

**PROFESSIONAL EXPERIENCE**

Worked as a **Analytics Lead** in **RISE Pvt. Ltd** from **September 2013-August 2017**.

Working as a **Senior Software Engineer** in **Tech Mahindra Limited** from **August 2017** to **Till date.**

**TECHNICAL SKILLS:**

**Hadoop Ecosystem:** HDFS, Spark(PySpark), Sqoop, Pig, Hive, Oozie

**BI Tools:** SAP Crystal Report, SAP Lumira, Zoomdata, Tableau Desktop 10.3

**ETL Tools**: Data Process Logic Studio, Synapse DPL 6

**Databases:** MSSQL, MySQL and Hbase

**Data Modelling:** SAP Power Designer, SAP Information Design Tool and KDM

**Programming Language:** Python and Java

**Web Application Framework:** Flask

**EDUCATION:**

• Master of Computer Applications (M.C.A) from Silicon Institute of Technology Bhubaneswar, Orissa with 9.4 CGPI.

• Bachelor of Computer Applications (B.C.A) from Utkal University, Orissa with 78%

**Project 1: RLS Blockchain POC**

**Role:** Lead

**Technologies:** Hyperledger fabric, Hyperledger Composer, Docker, NodeJS, Angular, Zookeeper, Kafka

**Client:** Reliance life sciences

**Team Size:** 4

**Description:**

RLS needs to keep track of the product from scratch where the raw material was consumed to make the product till the dispatch of finished products to the end customers. With the help of blockchain environment all the transactions taking place in the pharmacy supply chain can be monitored and counterfeit medicines can be easily identified.

**Responsibilities:**

• Platform evaluation for supply chain point of view.

• Understanding the business process and identifying the entities and relationship.

• Designing architecture and network diagram.

• Designing class diagram which is further consumed by rest server for transaction on top of blockchain environment.

• Guiding team on blockchain implementation.

**Project 2: Gasifier**

**Role:** Analytics Developer

**Technologies:** Python 3.5, MySQL, MS SQL Server

**Client:** Reliance Industries Limited

**Team Size:** 4

**Description:**

Using ETL techniques to connect to LIMS, IP21

**Responsibilities:**

• Writing python program to perform ETL operation to bring sensor data (ip21).

• Scheduling ETL job and auto train model.

**Project 3: TCFA**

**Role:** Analytics Developer

**Technologies:** Python 3.5,PySpark, Hive, SQL Server, Zoomdata

**Client:** Reliance Life Science

**Team Size:** 4

**Description:**

Goal of this project is to give an overall picture of the carrier lifetime across all the RO(Retail Outlet) and to deploy a data science driven solution, which can provide a prediction of the carrier who are likely to churn in next 3 months to realize the following benefits.

Customer retention

Insights into the churn-rate and effectiveness of loyalty scheme.

**Responsibilities:**

• Migrating python code to pyspark code.

**Project 4: DNA Sequencing**

**Role:** Analytics Developer

**Technologies:** Python 3.5, MariaDB, Docker

**Client:** Reliance Life Science

**Team Size:** 3

**Description:**

Using ETL techniques to connect to LIMS, IP21, and SQL/LNDB on real-time to collect and present the data for the Operational Dashboard. Implementing correlation, regression and other relevant techniques to identify the contributing factors for over and under performance of strain. Using machine learning techniques to build a genomic simulator to enable faster evaluation of new/proposed algal strain.

**Responsibilities:**

• Creating the web app using python web application framework (flask).

• Packaging the whole application and writing script for single click deployment.

• Design and implement log management.

• Dockerizing flask application.

**Project 5: Single cell cloning and HLA Gel Analysis**

**Role:** Analytics Developer

**Technologies:** Python 3.5, MariaDB, Docker

**Client:** Reliance Life Science

**Team Size:** 3

**Description:**

Using ETL techniques to connect to LIMS, IP21, and SQL/LNDB on real-time to collect and present the data for the Operational Dashboard. Implementing correlation, regression and other relevant techniques to identify the contributing factors for over and under performance of strain. Using machine learning techniques to build a genomic simulator to enable faster evaluation of new/proposed algal strain.

**Responsibilities:**

• Creating the web app using python web application framework (flask).

• Design and implement log management.

• Packaging the whole application and writing script for single click deployment.

• Dockerizing flask application.

**Project 6: HLA Gel Analysis**

**Role:** Analytics Developer

**Technologies:** Python 3.5, MariaDB, Docker

**Client:** Reliance Life Science

**Team Size:** 3

**Description:**

Using ETL techniques to connect to LIMS, IP21, and SQL/LNDB on real-time to collect and present the data for the Operational Dashboard. Implementing correlation, regression and other relevant techniques to identify the contributing factors for over and under performance of strain. Using machine learning techniques to build a genomic simulator to enable faster evaluation of new/proposed algal strain.

**Responsibilities:**

• Creating the web app using python web application framework (flask).

• Packaging the whole application and writing script for single click deployment.

• Design and implement log management.

• Dockerizing flask application.

**Project 7: Algal Strain Analysis**

**Role:** Analytics Developer

**Technologies:** Python 3.5, Hive, Sqoop, Tableau, MariaDB, Docker

**Client:** Reliance Industries Limited

**Team Size:** 4

**Description:**

Using ETL techniques to connect to LIMS, IP21, and SQL/LNDB on real-time to collect and present the data for the Operational Dashboard. Implementing correlation, regression and other relevant techniques to identify the contributing factors for over and under performance of strain. Using machine learning techniques to build a genomic simulator to enable faster evaluation of new/proposed algal strain.

**Responsibilities:**

• Writing python program to perform ETL operation to bring sensor data (ip21), QA data on SQL Server and Web app data from MariaDB and Weather station.

• Creating the web app using python web application framework (flask).

**Project 8: JNM Flare Analysis**

**Role:** Analytics Developer

**Technologies:** Python 3.5, MariaDB, Angular JS

**Client:** Reliance Industries Limited

**Team Size:** 6

**Description:**

To analyses the how much metric ton of gas is burning by calculating from pressure sensor data and identifying what is the exact amount of hydrogen and other gas is burning.

**Responsibilities:**

• Writing python program to collect data from sensor and store data into MariaDB.

• Writing SQL Query and views for dashboard view.

• Creating flask app to expose JSON response for Angular Application to consume.

**Project 9: Data Lake Creation for S&T**

**Role:** Analytics Developer

**Technologies:** Python 3.5, Hive, Sqoop, Oozie

**Client:** Reliance Industries Limited

**Team Size:** 5

**Description:**

Objective is to produce analytics report from crude oil report to optimize the crude oil purchase and analysis on Log data coming from exchange server and iis log.

**Responsibilities:**

• Writing python program to perform ETL operation to make unstructured pdf and log file to structured format.

• Creating HIVE table, loading data and performance tuning on hive query, scheduling Hive Query.

**Project 10: Tsunami**

**Role:** Analytics Developer

**Technologies:** Azure Storage, HIVE, SAP Business One, Microsoft Hololens MongoDB, SAP HANA, Python and .net

**Client:** Tsunami ARVR

Team Size: 6

**Description:**

The main intention of this project is to improve the user access criteria of SAP B1 application which is Server-client based architecture. In this project we are migrating SAP B1 Maintenance, Repair and Overhaul (MRO) module data into MongoDB. Predective analytics on Hololence images and video. Migrating SQL server data to Hive.Tablet application connects to MongoDB and visualize the data. Users will interact with tablet application and do status updation and other operations. This updation will be sync to SAP B1 MRO module through ETL.

**Responsibilities:**

• Analysis of business requirements and SAP B1 MRO application and understanding the process flow model.

• Creating Stored Procedure and created complex HIVE query with analytical function.

• Developed Data Movement Model (DMM) by SAP Powerdesigner Data modeling tool with reference of HLD document.

• Optimized HIVE SQL Statement.

• Created reports on Crystal report.

**Project 11: National Bank System**

**Role:** Bigdata Developer

**Technologies:** Java, Hadoop, HDFS, Hive, Pig, Sqoop, Hbase and MySql

**Client:** National Bank System

Team Size 15

**Description:**

It provides commercial and retail banking services throughout the Africa and Middle East continent. The bank wanted to help its customers to avail different products of the bank through analyzing their expenditure behavior. The customers spending ranges from online shopping, medical expenses in hospital, cash transaction, debit card usage etc. The behavior allows the bank to create an analytical report and based on which the bank used to display the product offers on the customer portal which was built using java. Portal allows the customers to login and see their transactions which they make on a day-to-day basis. These analytics also help the customers plan their budgets through the budget watch and My Financial forecast applications embedded into the portal. The portal helped plan the savings and daily pigmy amount for the customers based on their earning and needs. The overall data size is **120TB**. In order to ensure high availability of data node, Hadoop maintain the redundancy and distribute the data among 5 Nodes. Have **60 live node** hadoop cluster running on CDH4.4.

The portal used Hadoop Framework to analyze the data as per the rules and regulations placed by the regulators from the respective countries. The offers and the interest rates also complied with the regulations and all these processing was done using the Hadoop Framework as BigData analytics system.

**Responsibilities:**

• Analysis of business requirements,

• Worked with highly unstructured and semi structured data of 120TB.

• Created and worked Sqoop (version 1.4.6) jobs with incremental load to populate Hive External tables.

• Extensive experience in writing Pig (version 0.15) scripts to transform raw data from several data sources into forming baseline data.

• Developed Hive (version 1.X) scripts for end user / analyst requerments to perform ad hoc analysis.

• Very good understanding of Partitions, Bucketing concepts in hive and designed both Managed and External tables in Hive to optimize performance.

• Solved performance issues in Hive and Pig scripts with understanding of joins, Group and aggregation and how does it translate to MapReduce jobs.

• Developed UDFs in java as and when necessary to use in PIG and HIVE queries.

• Involved in maintenance tasks.

**Project 12**: **SnapDPL Discovery and Portal**

**Role:** Product Owner

**Application:** Tableau, Power BI, D3, Orchard, SAP Power Designer

**Technologies:** Data Process Logic Studio, SQL Server Import Export wizard, MSSQL Server, MySQL

**Client:** Resource Integration Solutions Enterprise.

Team Size 5

**Description:**

Desktop Win App to conduct discovery scans, define requirements, collaborate on design of data blending apps to capture data and perform analysis, process data for multitude of sources, enable visualization add-ons for collaboration by analyst / business users.

**Responsibilities:**

• Research in market similar type of product and enhance the flow.

• Developing the Business Requirement Document.

• Creating Empathy Map for the product.

• Designing the Process flow document.

• Prioritizing the task for development.

• Coordinating between developer, tester and business user.

**Project 13: Employee Time Tracking.**

**Role:** BI Developer

**Applications:** Addadime

**Tools:** SAP Crystal Report 2013, SAP Business Object CMC,Data Process Logic Studio, MS SQL Server, My SQL and SAP Power Designer.

**Client:** Resource Integration Solutions Enterprise.

Team Size 3

**Description:**

Resource Integration Solutions Enterprise has one Addadime application, there maintaining information about employee Project and Leaves information and also have time in-out information and separate payroll information objective is to make the data clean and generate clear report.

**Responsibilities:**

• Designing the reporting template and make approve from client.

• Developed data Mappings between source systems and warehouse components.

• The objective is to extract data stored in different databases such as SQL Server, My SQL and to load finally into a single data warehouse repository, which is in My SQL for Reporting Purpose.

• Building several weakly and daily scheduled crystal report like Utilization reports, Timesheet report with clear summarized and drilldown to detailed data feature.

• Creating user in CMC and configuring reports in server.

• Involved in Unit testing and checked the output according to the specifications.

**PERSONAL DETAILS:**

Name : Ankur Alankar Biswal

Languages Known : English, Hindi and Oriya

Date of Birth : 5th April 1990

Address for communication : At/Po- Chandabali,BadabazarDist-Bhadrak----------------------------------------------- Orissa, PIN-756133

**Declaration:**

I hereby declare that all the above mentioned details are correct and perfect

Place: Mumbai Ankur Alankar Biswal