# Jyoti Prakash Senapati

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# Business Intelligence,Data Analytics & Architect

- Holding Total Year of Experience **10.10  year.**
- Currently working as **Senior Consultant** in **Deloitte Asia.**
- **SAP Certifications:-**
  - ABAP on HANA 2.0
  - SAP HANA Cloud
  - SAP Analytics Cloud

- **Cloud Certification**
  - Databricks Fundamental
- Expertise:-
  - Technology Stack(SAP) :- **SAP HANA Cloud, SAP BW4HANA, SAP NATIVE HANA, SAP BW on HANA, SAP BODS, SAP Webi, Tableau.**
  - Technology Stack(Cloud):- **SnowFlake**
  - Language Stack:- **PL/SQL, ABAP**
  - Data Analytics Area :**- Sales, Logistics & Finance**
- Completed  Projects(**BI - Data Engineering** )
  - **SAP BW4HANA(2.0)** Implementation.
  - **SAP NATIVE HANA** Implementation.
  - **SAP BW on HANA** Implementation.
  - **SAP BW** Support/Enhancement.
  - **Data Migration** between **SAP HANA** & **Snowflake** using **SAP BODS**
  - **Data Migration** from **Non SAP** system(Oracle & TeraData) to **SAP** System using **SAP BODS**.
  - **Snowflake BI** Implementation

- Completed Projects (**BI - Data Analytics**)
  - Developed **Various Dashboard** on **Tableau** On Unstructed Data from Cloud Sources**.**

- Orgnization & Business Growth Activities:-
  - As a Solution Architech, Worked with Funcational Team to know Client requirement prominently and also developed **POCs** using **SAP BW4HANA, SAP HANA, SAP BW, SAP Business Objects etc.** tools to help Clients to have better vision about their requirements.

- o **Former Member** of **Quest Global Innovation Team** & **Infosys SAP COE**(Centre of Excellence) for implementing solutions for critical business requirements and new innovation ideas in the Data Analytics.
  - o Active Member (Steel) of **SCN** (SAP Community Network) and have also published paper on **Migration tool** of **SAP HANA** in **SCN**.
- Excellent capability in Team Management and Coordination, Proven ability in completing Development, System Integration and Deployment within time line.
- **Carrier Objective -** Aspiring to work in a resourceful, innovative and challenging environment which will enable me to grow in terms of knowledge and responsibility at professional as well as personal level thereby directing my future endeavours as an asset to the organization of repute.
- **Goal Driven** - Resolve to make things better, ability to think out of box, willingness to learn, versatile job handling, ability to adapt in teamwork & leading sizeable team, Strong communication, collaboration and team building skills with proficiency at grasping new technical concept quickly and utilize the same in productive manner.

## PROFESSIONAL EXPERIENCE

**Current Company**
**Deloitte Asia**
**Senior Consultant**

**Duration: -** October 2022 to Till date

**Bangalore,India**

**Previous Company**
**Wipro Limited**
**Technology Lead**

**Duration: -** June 2021 to October 2022

**Hyderabad,India**

**Previous Company**
**Quest Global Pvt. Ltd**
**Lead Engineer**

**Duration: -** Sept 2017 to June 2021

**Infinia Tower, Bhubaneswar**

**Previous Company**
**ZS Associates**
**Senior Finance Analyst**

**Duration: -** Jan 2017 to Sept 2017

**World Trade Center, Pune**

**Previous Company**

**Infosys Limited.**
**Senior Systems Engineer (Consulting & System Integration - SAP)**

**Duration: -** May 2013 to Dec 2016

**Pune Phase 2**

## KEY PROJECT UNDERTAKEN

**Project Experience**

| Project # 5 | |
|---|---|
| **Client:** Leading Global Electronics Manufacturer. | |
| **Role: Senior Consultant (**Business Intelligence & Reporting**)** | **From:** December 2022 to Till Date |
| **Project Description:** <br> • **SAP BI (SAP HANA, SAP BW on HANA,S4HANA ,SAP ABAP), Reporting (Webi, Analysis for Office)** Consultant for **Finance & Sales Business Module**. | |
| **Responsibilities:** <br> ➢ Implemented **ODP enabled LIS** Extractor based Data flow in **BW on HANA 7.5.** <br> ➢ Developed **HANA optimized Calculation Views** in Data mart & reporting layer. It helped to reuse the objects without consuming the additional memory. <br> ➢ Developed **CDS view & Function** based Data Sources to replace old customized Data Source to overcome the limitations of the View & FM based Data Sources. <br> ➢ Developed hybrid development model, including BW & HANA objects to provide optimized data provider models for reporting. <br> ➢ Developed **Advance DSO** which optimize the memory consumption and minimized the data refresh timing in the report. <br> ➢ Developed User interface for Flat File upload in **SAP ECC** which helped user to get the self service kind of process. It also minimzed the dependency. <br> ➢ Helped user to set up the **SAP Native HANA** development to leverage the capability of **SAP HANA in-Memory** for optimizing the BI process. <br> ➢ Minimized the Data flow process by replacing **Cube,Multiprovider & Bex Query** into **Advance DSO & HANA Calculation view**. This also helped free up the unnecessary persistance of Data. <br> ➢ Helped Basis team to set up connection between **SAP HANA & Analysis for Office and SAP Webi**. Refreh & Reload time of the reports got enhanced as it connected directly to HANA DB instaed of Application layer (SAP BW). <br> ➢ Helped Basis team to set up connection between S4HANA & SAP BW using ABAP CDS view based connection. <br> ➢ Developed **ODP enabled CDS View based extractor** to utilize SQL view based extraction process from **S4HANA system.** <br> ➢ Implemented complex data relations of multiple source info in **SAP BW on HANA** for reporting. <br> ➢ Developed **SAP Analysis for Office** Reports on **SAP HANA Calculation Views.** | |

| Project # 4 |
|---|
| **Client:** Leading Global Computer & Mobile Manufacturer. |

| **Role: Data Architect (**Business Intelligence & Reporting**)** | **From:** September 2017 to October 2022 |
|---|---|

**Project Description:**

- **SAP BI (SAP HANA, SAP BW4HANA), Reporting (Webi, Tableau)** Consultant for **Finance ,Operations & Sales Business Module**.

**Responsibilities:**

➢ Implemented **JSON** Data Analytics Report on Finance using **Snowflake  & SAP HANA. Snowflake** used to convert JSON to Structured Data, Data backup, Data enrichment. **SAP HANA** used to Analysis and Reporting. Final Report has been published on **UI.** Analytics Dashboard has been implemented on **Tableau** using **Live Connection** for **Real Time Reporting.**

➢ Implemented business module in **Enterprise SAP HANA 1 SPS 12 & BW4HANA 2.0.**

➢ Developed Customized **FM** based **BW Extractors**, **CDS** based **BW4HANA Extractors.**

➢ Developed both **ABAP** & **AMDP** based routines as per the technical requirements.

➢ Implemented business modules (previously runs on SAP R/3 Module)s in **SAP HANA**  Which has reduced 5-6 Days Process to 2 Minutes.

➢ **Files** provided by users in the form of CSV for ADHOC reporting. Using **SAP BODS,** files have upload into the target systems like **SAP HANA** & **SAP BW**.

➢ Some reports required transpose the incoming data. Those have implemented using **Pivot functionality** of **SAP BODS**

➢ Created **Information views** using **SAP HANA Claculation view**, **Scripted Calculation view & Tabular Functions.**

➢ Integarted **Tabular Functions, Scripted Calculation view** into **Graphical Calculation view.**

➢ As per client requiremnet, Real time reporting has implememted using the HANA integartion with the Portal. That was specific requirement for **War Room Reporting** on the Launch of **I Phone 8** and **I Phone X.**

➢ Followed SAP Standard process like **Table Partitioning**, **SQL Engine Utillization, Offload of unused tables, Delta to Main Memory merge**  during creation of HANA models for better peroformence & optimized memory Utillization.

➢ Having done **Quality check** on every HANA reporting queries, which was used in reporting in portal using **Plan Viz** of SAP HANA to reduce the Query execution time and quick Report data availibity.

➢ Redesign the ORACLE objects like **Functions, PL/SQL Procedures** into **SAP HANA Information views, Functions, Database views, Stored Procedures** etc. Optimized the HANA Database memory consumtion by converting **ORACLE materialized views[[p8t** into **HANA Virtual Information views.**

➢ Properly implemented **Row based Table** and **Column based table** for improve **Write and Read functionality.**

➢ Migrating existing BW models to **BW4HANA 2.0** Versions i.e. Standard DSO to ADSO, Cube to Datamart ADSO, Write optimized DSO to Corporate memory based Stagging ADSO, Extrcators to ODP based Extractors etc.

➢ Implemented **Composite provider** combination of DSO & Hana Views to take care some complex scenarios.

- ➤ **Sales Dashboard** has been developed using **Tableau** which reflects Realtime data. This holds aggregated level data.
- ➤ **Weekly/Monthly Reports** have been developed using **Webi** for Operations/Fin area end users.

## List of Improvements in Business Area:-
- ➤ Automate the Report refresh process and reduced the report refresh time.
- ➤ Increased data efficieny and minimized the system complexity.
- ➤ Reduced cost on the memory consumption by converting persistence layer into virtual layer.
- ➤ Easily available data for Real time Reporting.
- ➤ Long running Transactional system process has been reduced from **DAYS** to **MINUTES**.
- ➤ Migrated to **BW4HANA** objects to minimize the memory utillization which has optimized the Data readiness performance.

| Project # 3 |
|---|
| **Client:** Finance (Enterprise of ZS Associates) |

| **Role: Senior Finance Analyst** (FI- Reports & Analytics Team) | **From:** January 2017 to September 2017 |
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## Project Description:

Implementing Various Finance Operational modules in **SAP HANA & BW on HANA**. Also developed reports for Finance team using **Webi & Tableau.**

## Responsibilities:
- ➤ Creates models using SAP HANA Views like Calculation View, Analytical View and Scripted Calculation Views to implement complex business rules.
- ➤ Have created multiprovider using HANA information view to combine multiple calculation views to create a holistic information system for generic reporting of finance.
- ➤ Worked on MS BI – HANA, MS Access – HANA, MS SQL – HANA, ECC - HANA integration modules. Migrated legacy reports backend models into SAP HANA models to increase the performance and reduce the complexity of data management. Also exported SAP ECC (Function Modules, Report Programs), which are used for reporting, to SAP HANA to reduce the data refresh time and complexity.
- ➤ Have implemented LSA++ architecture to minimize Data persistence layer and Data redundancy.
- ➤ Migrates data from traditional systems like **MS BI, MS Asccess, SAP ECC to SAP HANA** by using **SAP BODS, SLT** & **HANA SDA**.
- ➤ Created tools to automate data load, data manipulation process using **SAP HANA** Back-end tools by creating POCs.
- ➤ Helped BASIS team, Vendor team in Data volume management and housekeeping task to reduce memory usage of Servers.
- ➤ Ensured Data Load and Availability for Reporting.
- ➤ Closely look to complete Month-end to availabe critical reports like (**Office Region View, Client Income Statement, Planned Discount** etc.).
- ➤ Migrated multiple Critical reports,which was created using legacy system, to HANA. Reports like **Principal Matrics, Time Reports of Different Zones, BD hours Reports,WIPE,WIPF** etc.
- ➤ Effectively communicating and helped other teams during new **Adhoc Reports** or any **Critical Reports**.
- ➤ **Hadoop** Integartion with existing BI Model to show the Hot Data and Cold Data in one time
- ➤ Aslo created Dashboards using **SAP Design Studio** and **SAP BO** for real time reports

## List of Improvements in Business Area:-
- ➤ Automate the Report refresh process and reduced the report refresh time.
- ➤ Easily availibilty of Reports in Email and portals for business users with correctness of data
- ➤ Increased data efficieny and minimized the system complexity.
- ➤ Reduced the data upload time and data availability for reporting.
- ➤ Migarted legacy systems like **MS Access**, **MS BI** to **HANA**
- ➤ Implemented complex business plan in reports which helps senior business members to discuss and take critical business declensions easily.

- ➤ Reduced human error by automate data management process.
- ➤ Mininzed the memory consumtion as compared to legacy syetems.

**Project # 2**

Client: Leading Food and Beverages Company

| **Role: Senior Developer** (Data Warehouse & Reporting) | From: December -2015 to December 2016 |
|---|---|

**Project Description:**

Sales & Finance module implementation on **SAP BW on HANA** & **HANA**. Data migration has been done using **SAP BODS** & Reporting on **SAP Webi**.

- ➤ SPOC of **SAP BW,HANA, BODS, Design Studio and BW-HANA** from off-shore.
- ➤ Working in Business sectors like **Supply Chain Management**, **Warehouse Management**, **Sales, Human Resource and Pricing**.
- ➤ Communicating with Client for Enhancements and new Requirements.
- ➤ Understands the flow of Data Migration, Data Manipulation across the System Landscapes.
- ➤ Works with **Architect team** for solution building to implement an optimized model for better performance and quick response.
- ➤ Efficiently managing Back-end Team (6 Member) by providing Trainings and Idea of new technologies, creating awareness of Client Value, Motivating to automate the process, develop optimize solution & deploying solutions within the time-line.Good coordination skill with other teams of different vendor to reduce and delay or escalation.
- ➤ Create Documents, **PPTs for conducting End-User Training** to understand and usage of the Application.
- ➤ Creates models using **SAP HANA** Views like **Calculation View, Analytical View and Scripted Calculation Views** to implement complex business rules.
- ➤ Worked on SAP BW – HANA **SAP BW 7.4** integration modules. Migrated **SAP BW 7.3** objects to to increase the performance and reduce the complexity of data management. Also exported SAP BW objects, which are used for reporting, to SAP HANA to reduce the data refresh time and complexity.
- ➤ Have implemented **LSA++ architecture** to minimize Data persistence layer and Data redundancy. Also implemented data extraction method from **ECC by ODP**.
- ➤ Migrates data from traditional systems like **DB2, Oracle** to **SAP BW** and **SAP HANA** by using **SAP BODS** tools.
- ➤ Suggests client to automate data load, data manipulation process using **SAP HANA** Back-end & **UI** by creating POCs.
- ➤ Helped BASIS team in Data volume management and housekeeping task to reduce memory usage of Servers.
- ➤ Ensured Data Load and Availability for Reporting.
- ➤ Effectively communicating and helped other teams during system downtime or any production issue.
- ➤ **Hadoop** Integartion with existing BI Model to show the Hot Data and Cold Data in one time

> Having basic knowledge in SAP BO and SAP Design Studio.

**List of Improvements in Business Area:-**
> Automate the Report refresh process and reduced the report refresh time.
> Reduced the data upload time and data availability for reporting.
> Implemented complex business plan in reports which helps senior business members to discuss and take critical business declensions easily.
> Reduced human error and increased revenue by automate data management process.

**Project # 1**

**Client:** Leading Brewing Company

| **Role: Developer-** (Backend & Report Developer) | **From:** Oct 2013 to Nov-2015 |
|---|---|

**Project Description:**

Green Field implementation of **Sales, Finance** module in **SAP HANA** & **SAP UI5**.

**Responsibilities:**

- Worked with Pre-Sales & Functional Team to understand business problem and Client requirement.
- Conducts Q & A sessions with Clients to have better visibility Business issue and requirements.
- Developed word documents, PPTs ,Sample reports and POCs to help Client to have better vision about their requirements.
- Pro-actively communicated with On-Site members for client feedback or any new changes.
- Worked as good team co-ordinator by coordinating Front-end Team with Back-end Team for proper system Integration.
- Have done end to end functional and technical testing  (Unit testing, Regression testing, System integration testing) of Application before deploying it to production.
- Conducted Calls with End users and Support Team (Different Vendor) to demonstrate Application technically and functionality.
- Worked with Support team during system downtime.
- Developed **SQL Script** based **Stored Procedures(Static & Dynamic)** to pull data from flat files or other Database systems and store into the Database Tables, consolidate data, calculate according to the business rules ,implement security rules and Admin functionalities(data management, role changes etc.).
- Have used dynamic query and temporary tables in Stored Procedures to minimize runtime wile uploading multi million data.
- Surrogate keys have maintained in Master data table to optimize data upload process in transaction data table.
- Developed **Attribute Views, Analytical Views and Calculation Views** using proper Join and Union condition for reporting.
- Created Calculated Columns, Restricted Columns in different Views to **calculate MTD, YTD, MTG, YTG** and other complex business formulas.
- Maintained hierarchies of User and also created SQL Script and Model based Role Privileges for different type of user groups.
- Created Table type Variables, Scalar functions to show multiple column tabular outputs.
- Developed Queries of **HANA Views** for **UI reports**.
- Have gained basic knowledge in **SAP UI5**.

**List of Improvements in Business Area:-**

- Reduced Monthly closing periods from 18 days to 10 days.
- Automate maximum data flow process which helps to minimize manual effort and inappropriate reports. It helps to increase revenue and taking critical business decisions.Minimized complex data management process by reducing data persistence level.
- Easily accessible to history data.
- Users can see reports from their IPads, Smart Phones etc.

**Academic Project:-**

**Title:- High Speed 32-Bit Parallel CRC Checker**
**Year:- 2012**

**Description:-**

Designed and synthesized Net-list and GDS-II file of High Speed 32-bit Parallel CRC Checker IC using CADENCE VLSI Tools. The Logic has developed using Verilog Language.

**Tools Used:- CADENCE VLSI tools.**

## AWARDS

**Winner of Best Coding in Code-JAM** (*Infosys Limited*), *2016*

**Star Performer Award for Outstanding Support** (*PepsiCo Europe Region*), *2014*

**Winner of Manual Robotics and Automation** (*ITER, Bhubaneswar*), *2010*

## EDUCATION

| Course (Stream)/Examination | Institute/ University | Passing Year | Percentage/ CGPA |
|---|---|---|---|
| 10th (HSE ) | Balasore Zilla School, Balasore, ODISHA | 2005 | 82.93 |
| 12th (CHSE ) | Dr. J.N. College, Balasore, Odisha | 2007 | 71.44 |
| B.Tech (Electrical & Electronics Engineering) | National Institute Of Science & Technology, Berhampur, ODISHA | 2012 | 82.00 |

## PERSONAL INFORMATION

**Date of Birth :** 2nd Feb-1990

**Gender :** Male

**Language Known:** English, Hindi, Odia, Bengali

**Nationality :** Indian

**Marital Status :** Married

**PAN :** DPAPS3053F

## DECLARATION

I hereby declare that the above furnished particulars are true to the best of my knowledge & I bear the responsibility for the correctness of above-mentioned particulars.

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**Jyoti Prakash Senapati**