**Sunil**

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**Professional Summary:**

* Over **17 years** of experience in IT Strategy, Governance, Architecture, Consulting, Product Development, Project Execution, Software Development and Maintenance
* Experience in all phases of **Full life – cycle implementation** including Gap analysis, Functional and Technical implementation, Development, Performance tuning, testing, documentation and support.
* Experience as an **SAP Business Intelligence, Data Warehousing** experience in **SAP Business Objects 4.3/4.2, X1R3, XIR2/6.x/5.x (Information Design Tool, BI Launchpad, Desktop Intelligence, Business Objects Developer Suite, Web Intelligence XIR2/ 6.x/ 2.x, Broadcast Agent)** and **Business Warehouse** experience.
* Design, Develop and Support of **BI** applications using **SAP BW, SAP HANA, SAP Business Object tools (Webi, Crystal Reports, IDT, UD)**, **SAP SAC, SAP Datasphere, SAP BW/4 Hana, SAP DataServices,** **Power BI, Alteryx, Snowflake, Microsoft Fabric, Power Automate**
* Technical analysing on configuration of **BW** objects including Info **Cubes, Datastore Objects, Multi Providers, Info Packages, DTP, ETL jobs.**
* Experience with **Native Hana** Development (Information Views – **Attribute, Analytical and Calculation** views)
* Experience in creating **ODATA** service and **CDS** views.
* Experience in design and development of CDS Analytical Consumption views, composite views and Basic views using Hana Developer Studio using **ABAP** Perspective.
* Experience in creating **ADSO’s** and **Composite** Providers
* Experience in creating reports in SAP Analysis for office
* Data Extraction expertise including **(LO-Cockpit, FI/CO, HR, SD, CRM, MM, EWM, etc.)** of **Master data and Transaction Data.**
* Extensively worked in Data Extraction from Multiple **SAP and Non-SAP Legacy** Systems using **Business Content, LO, LIS, CO-PA, FI-SL, Flat File, and Generic Extraction Methods**for legacy data.
* Experience in **Real time data** **replication using SLT** (For SAP or Non-SAP data sources).
* Experience in **BI Production Support** in handling daily batch jobs, load failures, delta failures, Performance issues, BIA issues, System issues, reporting issues, locking issues, resource bottleneck issues.
* Experience and intensively worked on **SAP BW** **Security and Authorizations.**
* Experience in front-end Business Warehouse components: **SAP Business Object, Bex Analyzer, Query Designer, Workbooks,** and Calculated key Figures, Restricted Key Figures, Structures, Variable, Exceptions, Conditions, Jump to Query, Ad-hoc Queries, Web Application Designer, Exception Reporting and Pre-Calculated web templates.
* Experience in creating **ETL workflows** in **Alteryx.**
* Experience with Azure transformation projects and Azure architecture decision making Architect and implement **ETL** and data movement solutions using Microsoft Cloud **Azure Data Factory (ADF).**
* Developed extensive **ETL data pipelines** utilizing **Azure Data Factory.**
* Experience in writing/working with **Databricks** Notebooks.
* Expertise building large scale cloud data warehouse using **Snowflake**, **Snow SQL, Snow Pipe, and Streams & Tasks.**
* Expertise in **Snowflake** advanced concepts including **Resource Monitors, RBAC controls, VW sizing, query performance tuning, zero copy clone, time travel.**
* Experience in creating **Power BI** Queries and Dashboards.
* Expertise to create **Denodo** Virtual views from multiple sources for data analytics.
* Exposure in scripting and programming languages – **SQL**, **PySpark** and **Python.**
* Exposure to Gen AI technologies Microsoft **CoPilot**, **ChatGPT**
* Experience with data modeling, data staging, and data loading using various tools and technologies.
* Excellent Communication, Interpersonal skills, Problem solving abilities and effectiveness in working independently or as a team player.

**Technical Skills**

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| **BI Report Tool** | SAP Business Objects 4.3/4.2, Desktop Intelligence, Dashboard, Web-Intelligence, Info View, Universe Designer, IDT, UDT, Crystal report, Tableau7.0/8.1 |
| **Big data and AI** | PySpark, Microsoft Fabric, SAP Datasphere |
| **Cloud** | Snowflake, Databricks and Azure |
| **Databases** | SAP HANA, Oracle, MS SQL Server, Snowflake |
| **Programming** | Python |
| **ETL** | SAP BW 7.x, SAP BW/4 Hana, SAP BODS, SAP SLT, Microsoft Fabric, Alteryx |
| **Data Modeling and Reporting** | SAP HANA Information Views, SAP BOBJ, SAP SAC, SAP Bex, Power BI, SAP Datasphere |
| **Operating Systems** | Windows (All Variants), UNIX |

**Certifications and Training**

* **Alteryx Certified: Alteryx Foundation**
* **AWS Certified: AWS Cloud Practitioner Essentials**
* **Snowflake Certified: Hands On Essentials Data Warehousing**
* **Google Certified: Introduction to Generative AI**
* **Denodo Training: Denodo Architect**
* **Snowflake Training: Udemy SnowPro Core**
* **SAP Training: SAP Cloud Analytics, SAP Datasphere**
* **Microsoft Training: GitHub Copilot and Azure Data Bricks, Microsoft Fabric Analytics Engineer**

**Education**

* Bachelor of Technology (BTech) in CSE, from JNTU, Hyderabad, India.

**Professional Experience**

**Cessna – SAP BW and BOBJ Development and Support, KS July 2022 – Till Date**

**SAP BW/BOBJ/HANA/Power BI/Data Integration Analyst**

Design, develop, and support **SAP Business Warehouse (BW**) and BusinessObjects (BO) reporting solutions to enhance business decision-making and operational efficiency. Develop a comprehensive reporting solution that integrates data from multiple **SAP ECC and S/4** systems, including (**Beech, Cessna, EWM**, Gateway).

**Roles & Responsibilities:**

* Requirements gathering from Functional **Architects,** Business users, Business Analysts, IT Analysts and designed a robust data model to handle all reporting requirements from multiple enterprise source data
* Designed and developed hybrid models combining **Native HANA models and SAP HANA-**optimized BW models including Calculation views, Analytical view & Attribute view
* Tailored data models to meet specific requirements of Power BI reports, KPIs, and dashboards
* Implemented SAP HANA-optimized data model in **SAP BW 7.4 SP9 for SAP** source systems, leveraging Advanced DSO's and Composite Providers for optimized data management and performance.
* Designed and developed **Core Data Services (CDS)** views and exposed them as OData services for real-time operational reporting.
* Created SLT configuration for SAP and Non-SAP data sources, SLT data replication and troubleshooting using expert function
* Implemented **Smart Data Access (SDA) in HANA** enterprise to integrate non sap database without pulling data into HANA Enterprise
* Created Microsoft Cloud Azure Data Factory pipelines and data flows to integrate SAP data into **Azure Data Lake Gen 2**
* Created Denodo Virtual views for integrating **SAP and Non-SAP sources**
* Designed and developed reports and dashboards using **SAP SAC's** reporting and visualization tools
* Developed and maintained **SAP SAC** models for financial planning, forecasting, and analysis
* Created and managed data connections to various sources, including **SAP ERP** and other cloud-based systems
* Developed and maintained data validation rules and data quality checks
* Created BO universes **IDT from HANA** information views and **SAP Function Module** for custom values
* Developed Power BI reports using Denodo Virtual views and **Power BI DAX functions**
* Created Power BI Dax tables for summarized reporting and dynamic parameters
* Implemented data quality checks in the data flows for data governance best practices
* Implemented Row Level and Column Level security for better data governance
* Implemented incremental refresh feature on long-running Power BI queries
* Performed **HANA** administration tasks, including user and role creation
* Cleaned up unused **BW** delta queues to save **HANA memory**
* Implemented table partitioning and performance tuning technics to increase performance of the long running queries
* Created HANA stored procedures for string aggregation and data replication
* Created SAP Analysis for Microsoft Office workbooks to leverage excel functionality
* Implemented Text Analytics using **Fuzzy** search in SQL-based calculation views for data scientists
* Conducted root cause analysis and problem investigation for issues
* Developed and implemented key components of "TAMI," an AI-powered search engine, reducing aircraft manual retrieval time for shop floor technicians by 30%
* Integrate data from various sources (SAP, non-SAP, cloud, on-premises) using **SAP Datasphere** and create **ETL workflows**
* Using **Azure DevOps** for issue tracking and project management.
* Developed automated email notifications using Power Automate to alert stakeholders of long-running semantic models on the Power BI server, enhancing monitoring and optimization capabilities.

**Environment and Technologies: SAP BW, SAP HANA, SAP SLT, SAP BOBJ, Power BI, Azure Data Factory Denodo, Azure DevOps, Microsoft Power Automate**

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**Bell Helicopter – Migrate Lawon data from SAP HANA to Snowflake, Mirabel March 2022 – July 2022**

**SAP HANA/BOBJ/Power BI/Alteryx/Snowflake/Denodo/Data Integration Analyst**

Migrate Lawson warranty data from SAP HANA database to Snowflake using Alteryx ETL tool, enabling a scalable and cost-effective data warehousing solution for non-SAP data. The migrated data will support Power BI reporting for enhanced data analytics and insights.

**Roles & Responsibilities:**

* Assessed Hana Data artifacts and mapped to Lawson system source tables.
* Designed and implemented **data migration** **Alteryx workflows** from Lawson to Snowflake.
* Developed data transformation and validation scripts to ensure **data integrity.**
* Conducted data quality checks and performed data reconciliation.
* Optimized data loading processes for efficient data transfer.
* Ensured data security and compliance with organizational standards.
* Designed and created custom Snowflake tables using **Create Table as Select (CTAS)** statements to support Power BI reporting requirements
* Designed Denodo Virtual views from multiple sources for integrated reporting.
* Developed **Power BI Queries** using database specific functions and **Power BI DAX functions.**
* Created Power BI reports using Denodo Virtual views and summarized data using **Power BI DAX tables.**
* Implemented Row Level and Column Level security for better data governance
* Implemented dynamic parameters for report input values and used merged queries for improved join results.

**Environment and Technologies: Snowflake, Alteryx, Denodo, Power BI, SAP Hana**

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**Cessna – MS SQL Server Data Lake Implementation, KS February 2018 – March 2022**

**SAP BOBJ/BODS/Power BI/Alteryx**

Migrate Cessna's Oracle EDW content to a **MS SQL Server Data Lake** environment, enabling cost-effective Power BI reporting and reducing reliance on Oracle database, **SAP BODS, and SAP BOBJ tools.**

**Roles & Responsibilities:**

* Decode **Oracle EDW** facts and dimensions into SAP source tables.
* Design and implemented **MS SQL Server Data Lake architecture.**
* Created Information Steward reports to find the data lineage and Impact
* Defined data profiles for Data quality checks for better data governance
* Configured SAP SLT for real time data replication from **SAP to MS SQL Server Data Lake.**
* Designed, developed, validated, and troubleshooted **ETL workflows** and datasets in Alteryx for analytics.
* Extracted data from non-SAP databases into **MS SQL Server Data Lake**.
* Optimized existing **Alteryx workflows** for performance and efficiency.
* Troubleshooted and resolved data quality and data-related issues.
* Created **MS SQL Server** views from data lake for Power BI reporting.
* Designed Denodo Virtual views from multiple sources for integrated reporting.
* Developed **Power BI Queries** using database specific functions and **Power BI DAX functions.**
* Created **Power BI reports** using Denodo Virtual views and summarized data using **Power BI DAX tables.**
* Implemented Row Level and Column Level security for better data governance
* Implemented dynamic parameters for report input values and used merged queries for improved join results.
* Enhanced performance using incremental refresh feature on long-running **Power BI queries.**

**Environment and Technologies: MS SQL Server 2012, Alteryx, Denodo, Power BI, SAP SLT, SAP BODS, SAP BOBJ, SAP Information Steward**

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**Beechcraft – Envision DWH, KS June 2017 – February 2018**

**SAP BI/BW/HANA/BOBJ/BODS Consultant**

The goal of this project is to design and implement a data integration solution using BusinessObjects Data Services (BODS) ETL tool. This solution will ingest data from the Envision system into the **Beech BW system,** enabling the creation of BusinessObjects (BOBJ) analytics (Labor Utilization, Work Orders Status, Flat Rates, Part Details, Honeywell Royalty)

**Roles & Responsibilities:**

* Created BODS mapping document based on the physical data model and discussion.
* Developed **BODS** ETL jobs to extract Envision data using **change data capture (CDC).**
* Implemented various transformations, such as **Query, Key Generation, Table Comparison**, History Preserving and Validation.
* Collaborated in data model design discussions and created **BW objects (ADSO's**, Info packages, **DTPs, Process Chains**).
* Configured and scheduled **BW process** chain jobs to run daily.
* Monitored **BODS** scheduled and manual jobs, performing root cause analysis and problem investigation as needed.
* Prepared technical documents for existing data flows, understanding integration points and execution order.
* Created **HANA calculation** views using graphical and scripted approaches.
* Developed **BO universe** based on **HANA** information views for Envision reporting.

**Environment and Technologies: BO Data Service 4.2, BOBJ 4.2, SAP BW, SAP HANA**

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**Beechcraft – iMRO Hana Reporting KS March 2015 – June 2017**

**SAP BI/BW/HANA/BOBJ/SDA Consultant**

The primary objective of this project is to design and implement a **SAP HANA Data Warehouse (DWH)** environment, enhancing the efficiency of aircraft Maintenance, Repair, and **Overhaul (MRO**) operations for Beech Service Center teams. this project significantly contributed to Beech Service Center's operational excellence and strategic growth.

**Roles & Responsibilities:**

* Gathered requirements from cross-functional teams and designed a robust data model to meet all reporting requirements.
* Implementation of **SAP HANA Optimized Data Model in SAP BW 7.4 SP9 for SAP** source systems using Advance **DSO’s** and Composite providers.
* Created hybrid models combining native **HANA** models and **SAP HANA optimized BW models.**
* Developed native **HANA models,** including calculation views, analytical views, and attribute views, using native **HANA** parameters and variables.
* Created **HANA** calculation views based on **SQL stored** procedures to leverage **HANA database** functions.
* Integrated non-SAP databases using **SDA adapters** and virtual tables.
* Loaded disputes flat file data into **HANA database** using export and import native Hana features.
* Implemented Text **Analytics using Fuzzy** search in SQL based calculation views on the customer long text comments fields.
* Performed delegated **HANA admin** activities, including user management, performance tuning, and log analysis.
* Created Business Objects universes from **HANA information** views for operational and ad-hoc reporting.
* Created BO universe based on **SAP Function Module** as source to get values from complex **ABAP program.**
* Created HANA stored procedure to push **HANA data** to downstream applications.
* Understand Business logic & technicalities of the **SAP iMRO** transactions to re-implement the same in **SAP HANA views**
* Provided 24/7 support in business-critical applications on **SAP BW, SAP HANA, BOBJ.**

**Environment and Technologies: SAP HANA, SAP BW, SAP BOBJ, SAP SDA, MS SQL Server 2012**

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**GE Fleet – EDW MN August 2010 – February 2015**

**SAP BO Architect**

This project is to build Business objects XI 3.1 environment in GE Capital Shared Service systems to reduce the cost of BO infrastructure and administrative costs in GE Fleet. This project also helps GE in migrating the BO content from older versions of BO 6.5 so cost of maintaining different BO servers will go down.

**Roles & Responsibilities:**

* Actively participated in the As-Is Fleet systems analysis and documentation for the data analytics reporting solution.
* Worked within business line to provide technical expertise in the design and planning of BI solutions.
* Provided cost estimates for new development, proposals and change orders.
* Designed the reporting templates for Universe, Report design and Support BO Developers.
* Reviewed the codes and the technical specs documentation prepared by BO Developers.
* Actively Participated in the User Acceptance Test using the tool Jenkins.
* Log defects using HP ALM, Provided Training and Best Practices templates on the new EDW.

**Environment and Technologies: Business Objects 6.5/XI3.1, HP ALM, Jenkins, Unix, Oracle 9i and Teradata**

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**GE Corporate – BO XIR2 to XI 3.1 Migration, India April 2010 – August 2010**

**SAP BO Admin**

This project is a migration of BO XI R2 GE environment to Business Objects XI 3.1 SP2, Administration of BO XI R2 and XI 3.1 SP2. Interaction with Business groups for gathering Requirements, Estimation and Planning for migrating of Groups, Reports and Universe to BO XI 3.1 SP2.

**Roles & Responsibilities:**

* Responsible in Upgradation of BO XI R2 Environment to BOXI 3.1 and Configured Servers, Security, IIS-Tomcat, Infoview Customization and SSO Authentication in clustered Environment.
* BO Administration - Creating users, Groups, Folders, setting privileges and Assigning resources to users.
* Managing BOXI 3.1 Servers and Server Groups.
* Importing data from BOXI R2 Environment to XI 3.1 using Import Wizard.
* Played an Active role in Estimation, Planning, and Designed Logical XI R3 model by analyzing the existing BO XI R2 environment.
* Coordination with different Application teams for moving reports and universes from XI R2 environment to XI 3.1.
* Responsible in UAT phase and fixed the issues reported after migration.

**Environment and Technologies: Business Objects XIR2, XI3.1, Windows 2003 Server, Oracle 9i and 10g**

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**GE Corporate – EDW support, India February 2008 – April 2010**

**SAP BO Admin**

This project is a migration of BO 6.5 GE environment to Business Objects XIR2, Administration of BO 6.5 and XI R2. Interaction with Business groups for gathering Requirements, Estimation and Planning for migrating of Groups, Reports and Universe to BO XIR2.

**Roles & Responsibilities:**

* Responsible in BO 6.5 Administration using Supervisor module - Creating users, Groups, Disabling or Enabling resources to users.
* Actively participated in Estimation, Planning, and Designed Logical **XI R2** model by analyzing the existing **BO 6.5** environment as part of migration activity from **BO 6.5 to BOXI R2.**
* Installed, Configured **BOXI R2 Servers and SSO** Authentication in clustered Environment.
* Importing data from one **BOXI R2 Environment** to another using Import Wizard.
* Applied Performance Tuning techniques to Improve Server Performance, Optimize Reports and Universe Performance by eliminating Performance bottlenecks.
* Involving in Backup and Recovery of **BOXI R2 repository.**
* Providing 24/7 on call support for **GE Corp** Business Objects users.
* Interacting with different teams like Network, APC, Database, Bigip to resolve production issues.
* Training business users to understand BOXI R2 environment features.

**Environment and Technologies: Business Objects 6.5, XIR2, Window 2003 Server, Oracle 10g**

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**Accenture – Beta Testing of Titan XIR3 version, India November 2007 – January 2008**

**SAP BO Developer**

Business objects organization is about to release the Titan Version (Business Objects XIR3). It is having a lot of new features, and it is more advanced than the previous versions. We have tested the new functionalities, features of BOXIR3 and Migration from BO 6.5.1 to XIR3 whether they all can be implemented successfully in real-time environment.

**Roles & Responsibilities:**

* Actively participated in the complete life cycle of the BO Titan (XIR3) beta testing from planning to closure of the testing.
* Extensively tested new features of Titan like WEBI rich client, report linking, smart measures, optional prompts, stored procedure universes and nested derived tables.
* Worked on enhancements of Live Office XIR3 such as Outlook integration.
* Gained significant hands-on CMC (XI R3).
* Acquired knowledge on migration of universes, documents and users from BO 6.5.1 to Business Objects XIR3.
* Involved in weekly status meetings with the client.
* Raised considerable bugs and suggested recommendations.

**Environment and Technologies: Business Objects XIR3, Windows 2003 Server, Oracle 9i**

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**Accenture – CIO EDW Reporting Solutions, India September 2006 – October 2007**

**SAP BO Developer**

This is an In-house project for Accenture Services Pvt LTD aiming to have an EDW solution in the company. The Project consists of four functional modules (Demand Analysis, Supply Analysis, Bench Analysis and Attrition Analysis). This involves creating reports; dashboards for senior management, The Demand Analysis helps the Management to know how many Demands Open , Closed, Critical, No-Critical, Overdue and Non-Overdue. These Reports are generated on a Weekly, Fortnightly or Monthly basis and this OLAP model is designed for Standard and Adhoc reporting.

**Roles & Responsibilities:**

* Responsible for Installation and Configuration of BO XI R2.
* Creating Semantic model using MS SQL server database for reporting.
* Created Desktop and Web intelligence reports like Cross tab reports, Charts, Drill Down reports, @Function reports.
* Created different types of reports, like Master/Detail, Cross Tab and Chart (for trend analysis).
* BO Administrative task, users, groups, roles creation, create BIAR files for backup and recovery of the CMS

and audit database governance.

* Involved in Deployment of Universes and Reports from UAT Machine to Production through Import Wizard.
* Configured SSL and LDAP Authentication.
* Involved in Unit Testing and User Acceptance Test.

**Environment and Technologies: Business Objects XIR2, MS SQL Server 2005, Window Server 2003**

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**Goldstone Technologies – BO Technical Support, India January 2004 – April 2006**

**Technical Associate**

This project is a Business Objects Technical Support for the Business Objects support site in India. The support involves design, development and Troubleshooting of Business Objects reports and Universes using Business Objects components like Supervisor, Designer, and Reporter.

**Roles & Responsibilities:**

* Responsible for interacting with the customers, understand their requirements, designing, testing and troubleshooting Business Objects Universes and Reports for various clients of Business Objects.
* Worked on Scheduled refreshing and distribution of reports to users using Broadcast Agent.
* Worked on Installation, Deployment and configuration of Business Objects Enterprise Suite (Web Intelligence, BCA, Auditor, Designer, Supervisor, Full client) and perform administrative tasks and security governance.
* Planning the Migration of customer environments from one version to another depending on their requirements and troubleshooting the issues that arise because of Migration.
* Trouble shooting customer universes and reports and support in all technical aspects of the product.
* Achieved highest customer satisfaction score of around 91%.

**Environment and Technologies: Business Objects 5.x/6.x/XIR2, Oracle, MS SQL Server 2005, Windows Servers**