**A logo with text on it

Description automatically generated**

**PRASANTH K**

***Informatica / Data Analyst***

**Email:** [Chinna.job21@gmail.com](mailto:Chinna.job21@gmail.com%20)  **|| Mobile: 224 (236)-3002**

**PROFESSIONAL SUMMARY**

* 10 years of experience in Database Development, Design, System Analysis and Support of MS SQL Server 2016/2014/2012/2008 R2/2008, Business Intelligence applications, design, development, and Maintenance of SSIS, SSRS and SSAS And **Data Analyst in Data Modelling, Evaluating Data Sources, and strong understanding of Data Warehouse/Data Mart Design, ETL, BI, OLAP, Client/**Server applications.
* Applications, design, development, and Maintenance **of SSIS, SSRS and SSAS.**
* Expert in all areas of SQL Server development including T-SQL Queries, Stored Procedures, User-defined Functions, Views, Triggers Case expressions, Cursors, T-SQL relational database models and data integrity.
* Strong experience with **Informatica Power Center ETL 9X, 10X, Informatica Analyst and ETL Informatica Data Quality IDQ 9.6 tools.**
* Adapted Quality Control Techniques to ensure **Data Integrity, Data Profiling and Data Validation**
* Implemented several **DAX functions** using calculated fields for efficient data visualization in **PowerBI.**
* Proficient in conducting comprehensive data analysis using **SQL, Python, and R** to extract meaningful patterns, leading to key discoveries that optimized business processes.
* Skilled in **managing large datasets**, ensuring data integrity, and implementing efficient data governance strategies that enhanced data accuracy and accessibility.
* Proficient in creating compelling data visualizations using tools like **Tableau and Power BI,** transforming complex data into intuitive visuals for easy comprehension by stakeholders.
* Proficiency in **R for statistical analysis and data visualization**, enabling in-depth exploration and presentation of complex data sets to facilitate strategic decision-making.
* Applied advanced analytics techniques such as machine learning, clustering, and time series analysis, resulting in the identification of patterns and trends crucial for business strategy.
* Expert in all areas of SQL Server development including **T-SQL Queries, Stored Procedures, User-defined Functions, Views, Triggers, Case expressions, Cursors, T-SQL relational database models and data integrity.**
* Extensive working experience in Normalization and De-Normalization techniques for both **OLTP and OLAP systems** in creating Database Objects like tables, Constraints and Indexes using **DDL, DML, DCL commands.**
* Deep knowledge of different Data Warehousing methodologies and concepts, including star **schemas, snowflakes, ETL processes,** dimensional modeling and reporting tools and Hands on in error handling and debugging coding issues and troubleshooting of production problems.
* Highly qualified in RDBMS concepts such as **Tables, User Defined Data Types, Indexes, Indexed Views, Functions, CTE, Table Variables and strong knowledge of SDLC principles.**
* Skilled in performing data transfers between different heterogeneous systems **(Excel, MS Access, Flat Files, XML file, Oracle)** and SQL Server as a part of **Data Migration, Data Maintenance and other ETL tasks.**
* Good experience with **developing Data profiling, Scorecards, Mapplets, Rule, Mappings, workflows, Data Cleansing, Data Standardization process, data exceptional handling** using Informatica Data **Quality Developer IDQ and Informatica Analyst tools and good experience with**Informatica Analyst **and Developer IDQ tools.**
* Expertise in identifying performance bottlenecks and optimizing performance with in Informatica mappings, sessions and workflows and Expertise in troubleshooting and analyzing issues/errors and providing resolutions accordingly.
* Extensively worked with XML transformations like XML Generator and XML Parser to transform XML files.
* Experienced creating and scheduling **SQL Server** Agent jobs for running ETL processes and performing data massaging and good experience with automating **Informatica**workflows with third party scheduling tools.
* Expertise in developing reusable **transformations, Mapplets, Workflows**, Worklets and sessions/tasks in Power Center Tool.
* Proficient in performing DBA tasks including installing and configuring SQL servers and backups/restore and recovery of databases.
* Worked in **agile and waterfall** environments, worked together with end users/customers to understand business requirements, recommended technical solutions and documented functional requirements.
* Good team player, strong interpersonal and communication skills combined with self-motivation, and initiative and quick learner.
* Well versed with complete **SDLC and Agile methodologies**. Experience in every stage of software development life **cycle (Analysis, Design, Development, Testing, deployment, and Support)**
* Expertise in design and development of ETL solutions including Extraction, Transformation, and Loading data from heterogeneous sources into **Data Warehouses and Data Marts using Informatica PowerCenter & SSIS**
* Expertise in creation of reports from **Tableau and Power BI** by connecting various enterprise Databases for data visualization and Experience in performance tuning in every stage of the **ETL process and SQL Queries**
* Strong knowledge on **UNIX and shell scripting**. Created Shell Scripts to automate various processes to save cost and time.
* Good exposure on **Azure Disaster recovery strategies** & security setup and good exposure on azure data gateways.
* Hands on experience to conduct scrum meetings and sprint planning by using tools like JIRA, Confluence & **HP-ALM** track the progress of projects.
* Expertise in working with **Business Analysts, Architects/Project** members from different areas including technical and non-technical resources and Proficiency in developing SQL with various relational databases like **Netezza, Oracle, Teradata, Toad and SQL Server.**
* Used to work with in Sprints and deliver the efficient code and Ability to meet deadlines and handle multiple tasks, work under both Agile and Waterfall methodologies.
* Working experience with front end and back-end products and Ability to quickly learn programming languages and other applications/software.
* Ability to organize, coordinate activities and motivate others through leadership and a positive outlook and Ability to work independently and in team environments.

**TECHNICAL SKILLS**

|  |  |
| --- | --- |
| ***Programming and scripting language*** | SQL 2019, Python 3.8, 3.11, Pysaprk |
| ***Cloud Services*** | AWS S3, AWS GLUE, AWS STEP FUNCTIONS, AWS LAMBDA, AWS CLOUD WATCH, AWS EMR, AWS KINESIS, Amazon SQS, Microsoft Azure (Azure ML, Azure Data Factory, Azure Databricks, Azure Data Lake Storage  Gen2, Azure Blob Storage, Azure SQL DB |
| ***Database*** | MySQL 8.0, Snowflake, Teradata, MS SQL server 2016/2012, Oracle 8i, 9i/10g, PostgreSQL, Mongo DB, AWS RDS DB, MySQL, Hive, Microsoft Azure SQL Database |
| ***Analytics*** | Data visualization, Data integration, Data Quality |
| ***Business Intelligence Tools*** | Power BI 2.X, Tableau, Amazon Quciksight |
| ***Big Data Technologies*** | Apache Hadoop 3.X and Spark 3.X |
| ***Database Tools*** | MySQL Workbench 5, SSMS 2019, GitHub, Eclipse 23, Jupyter Notebook, Databricks, Oracle SQL developer, PL/SQL, Visual Studio code, SQL server Management Studio, Teradata, Redshift, Azure Synapse, Azure Databricks, Snowflake, TOAD, Informatica |
| ***Data Warehousing*** | SSIS 2016, Informatica (Power Center/ Power Mart) 10, Data Mining, DataMart, OLAP, OLTP, Data Profiler |

**PROFESSIONAL EXPERIENCE**

**Client: T-Mobile, WA** **May 2020 – Till Date**

**Role: Informatica Analyst**

**Responsibilities:**

* Extensively used **Informatica data Quality, Informatica Power Center to create and manipulate source definitions, target definitions, mappings, Mapplets**, transformations, re-usable transformations, etc.
* Extracted data high volume of data sets **from SalesForce.com (SFDC) using Informatica ETL mappings/SQL PLSQL scripts and loaded to Data Warehouse Used UNIX scripts for scheduling and executing Informatica workflows.**
* Extensively tested the Business Objects report by running the SQL queries on the database by reviewing the report requirement documentation.
* Worked on Writing and tuning complex **SQL queries and shell scripts and worked on SQL server, Oracle, Sybase databases.**
* **Performed Teradata SQL Queries, creating Tables, and Views by following Teradata Best Practices.**
* Build out the data and reporting infrastructure from the ground up **using Power BI and SQL.**
* Developed large-scale data structures and pipelines using **SQL and Python to organize**, collect and standardize data for generating insights and addressing reporting needs.
* Performed feature engineering, model training and comparison, and back-testing **using Python (Pandas, NumPy, and SciPy).**
* Prepared test Scenarios and Test cases in **HP Quality Center** and involved in unit testing of mappings, system testing and user acceptance testing.
* Involved in monitoring the workflows and in optimizing the load times and involved in writing procedures, functions **in PL/SQL.**
* Maintained comprehensive documentation of database designs and changes **using ERwin, facilitating clear communication and audit trails** for project stakeholders.
* Created interactive and highly informative **Power BI reports using advanced DAX feature.**
* Developing **SQL scripts** for **data visualization** and **reporting** and implementing data warehousing concepts and techniques **using SQL.** Assessed existing data, identified data gaps, and worked with **Data Strategy** and business partners to develop solutions.
* As a Data Analyst in the Platform Operations team, responsible for rolling out **Corporate Credit Policies for 50 million credit card customers across North America.**
* Develop ETL infrastructure & automated data pipelines for writing scoring data files from AWS S3 to Snowflake Datamart using Python scripts.
* Perform Data Analysis on the analytical data present **in AWS S3, AWS Redshift, and Snowflake using SQL, Python, Spark, and Databricks.**
* Support the Cards LOB, building the Data Marts on the Snowflake platform using the analytical data received from Business.
* Design, develop, implement, and execute marketing campaigns **for US card customers using Snowflake, AWS S3, Pyspark, Databricks, and SQL scripting.**
* Hands-on writing of optimized SQL queries as per the business requirements to drive monitoring dashboards on AWS Quick Sight and Tableau that track key business metrics.Measure the impact and performance of various customer engagement initiatives, including incremental lift, revenue, and business metrics **across 3 communication channels Email, Direct mail, and Mobile.**
* Handle a variety of file formats such **as Parquet, Avro, and JSON for data analysis and debug using error logs fetched from AWS.**
* Perform a deep-dive analysis of the Credit line increase program and analyze fulfillment variables to develop and maintain a set of KPIs.
* Maintained data pipeline up-time of 99.9% while ingesting streaming and transactional data across 7 different primary data sources using **Spark, Redshift, S3, and Python.**
* **Worked with JIRA & Confluence administration** involving creation and management of custom, **complex projects, workflows, security schemes, custom fields**, dashboards.

**Environment:** SQL, Python, pyspark, PowerBI 2.120.963.0 64-bit (August 2023), HiveQL, AWS (s3, redshift), Spark

**Client: Galaxy Healthcare Solutions, NJ December 2018 – Mar 2020**

**Role: Informatica Analyst / Data Analyst**

**Responsibilities:**

* Translated the business processes into **Informatica mappings** and **Used Unix Command and Unix Shell Scripting** to interact with the server and to move **flat files** and to **load the files in the server.**
* Worked with high volume datasets from various sources like **Oracle, Text Files, relational Tables, and xml targets.**
* Created and configured database for development and production environments in **SQL Server.**
* Extensively worked in the performance tuning of the programs, **ETL Procedures and processes and Developed ETL jobs to extract information from Enterprise Data Warehouse.**
* Designed universes, classes, checked cardinalities and detecting loops using Business Objects Designer and Developed stored procedures and database triggers using **SQL Server.**
* Expertise in ETL reporting based on **the Flat Files** data sourced in different platforms and Responsible for file **archival using Unix Shell Scripting.**
* Extensively used **PL/SQL programming in backend and front-end functions, procedures, packages to implement business rules.**
* Responsible for definition, development and testing of processes/programs necessary to extract data from client's operational databases, **Transform and cleanse data, and load it into data marts** and involved in **requirement gatherings from users** and translated into technical specifications.
* Monitoring **SQL Server Logs,** Application logs and analyzing the logs and Translation of Business Processes into Informatica mappings for building Data Marts
* Created multiple custom **SQL queries in Teradata SQL Workbench** to prepare the right datasets for **PowerBI dashboards**.
* Queries involved retrieving data from multiple tables using various join conditions that enabled efficient optimized data extracts for **Power BI workbooks**.
* Created various Reports and Dashboard with **Power BI** to gain and gather insights and provided Production support **to Power BI** users and Wrote Custom SQL to support business requirements.
* Delivered Enterprise **Data Governance, Data Analyst, Metadata, and ETL Informatica solution.**
* Work to ensure high levels of data consistency between diverse source systems including **flat files, XML and SQL Database.**
* Daily **Data quality checks and Data profiling** for accurate and better reporting and analysis.
* Involved in translating the business requirements into data requirements across different systems.
* Wrote the **SQL and PL/SQL queries** on data staging tables and data warehouse tables to validate the data results.
* Maintained **Excel workbooks**, such as development of **pivot tables**, exporting data from external **SQL databases**, producing reports, and updating spreadsheet information.

**Environment**: Hive, MySQL 8.0, Python 3.8, 3.11, AWS, PowerBI, spark 3.X, pyspark 3.X, ETL

**Client: PNC, PA August 2017 – November 2018**

**Role: Data Analyst**

**Responsibilities:**

* Involved in analyzing and development of the **Data Warehouse and Analyzed business needs**, **created, and developed** new functionality to meet real time data integration that facilitated decision making.
* Involved in **information gathering** from end user and analyzing the data **to developed ER diagram, data dictionaries, and flow charts.**
* Actively participated in the requirement analysis, database design and modeling.
* Designed **universes, classes,** checked cardinalities and detecting loops using Business Objects Designer.
* Created and configured database for development and production environments in **SQL Server and Developed stored procedures and database triggers using SQL Server.**
* **Database and log backups & restoration**, backup strategies, scheduling the backups. Backing System & User Databases and restoring them when necessary and loaded the SQL Server database using Bulk Export and Import
* Created database for production environment in SQL and Used **Informatica**reusability at various levels of development.
* Involved in Developing UNIX shell Scripts to generate parameter files and executed oracle procedures as batch jobs and Develop **Informatica mappings** and workflows **for new change requests.**
* Preparing Test Results, Unit testing, Defect Fixing, Developing **Informatica ETL jobs** to extract data from Source and to load into the Oracle.
* Help build internal data tools which can help the business analyst and broader team to detect anomalies and automate repetitive tasks.
* Partner with **product, UX, Data scientists, statisticians,** and business partners to test different marketing creatives, communicate key findings, influence key decisions, and suggest recommendations to leadership.
* Manage the entirety of the campaign’s logic, including random segmentation of audience, exclusions, and assignment of offers and channels using **SQL Scripts.**
* Implement various pilot campaigns to identify new markets and identify opportunities for business growth by applying Statistical techniques to test hypotheses using AB test and Monitor lift across test vs control groups.
* Program corporate credit policy using scripting languages **such as SQL, and Python and validate business intent for edge cases & corner cases** analyzing output data of marketing campaigns. Create and **manage versions of the scripts using GitHub.**

**Environment**: Python, pandas, NumPy, Matplotlib, seaborn, scikit-learn, Decision Tree, Logistic Regression, MySQL, SQL

**Client: Anthem, IL Aug 2015 –July 2016**

**Role: Business Analyst**

**Responsibilities:**

* Design and develop quality integration workflows between multiple applications utilizing **Informatica tools.**
* Built mappings using **Informatica Data Quality** and export them as Mapplets to **Informatica Power Center to read JSON format files.**
* Involved in writing shell scripts for **file transfers & file attachments** and several other database scripts to be executed by UNIX.
* Performed Teradata **SQL Queries, creating Tables**, and Views by following Teradata Best Practices.
* Excellent knowledge on **Informatica Power Center** development and Used UNIX scripts for scheduling and executing **Informatica** workflows.
* Worked on **Informatica- Repository Manager, Designer, Workflow Manager & Workflow Monitor and Worked extensively with sources and target like Flat files, SQL Server tables.**
* Extensively tested the Business Objects report by running the **SQL queries** on the database by reviewing the report requirement documentation.
* Involved in preparing the migration list inventory and involved in requirement gathering for redesign candidates.
* Written several shell scripts using **UNIX shell for file transfers**, error log creations and log file cleanup process and Worked with BA in the QA phase of testing.
* Did performance tune of **Informatica c**omponents for daily and monthly incremental loading.
* Involved in Onsite & Offshore coordination to ensure the completeness of Deliverables.
* Involved in the preparation of High-level design documents and Low-level design documents.
* Designed and developed **Informatica Mappings** and Sessions based on business user requirements and business rules to load data from source **flat files and oracle tables to target tables.**

**Environment:** ORACLE 9i, SQL Loader, Windows, ERWIN, PL/SQL, windows batch scripting, Python

**Client: Trigent Software, Bangalore May 2014 –July 2015**

**Role: Data Engineer**

**Responsibilities:**

* Extensively Working with Remote-Machines and Developed mappings between source systems and warehouse components Using Mapping Designer.
* Created mappings to load data extracted from **flat files** and **SQL server** to staging using **informatica**.
* Created mappings to extract data from Staging area to enterprise data warehouse with applying **business rules**.
* Performance tuning of **ETL** transformations, workflow and **PL/SQL** procedures, Implemented **Type II** slowly changing dimensions to maintain current information and history information in dimension tables.
* Tuned Source, Targets, Mappings, Transformations and Sessions for better Performance.
* Extensively used **Transformations** like Router, joiner, filter, Source Qualifier, Expression, Sequence Generator, Update Strategy and Lookup connected and unconnected.
* Use Debugger to test the mappings and fix the bug. Writing Documentations to describe program development, logic, coding, testing, changes and correctness.
* Write SQL queries to validate that actual test results match with expected results.
* Prepared and ran SQL queries to verify Dimensional and Fact tables and Prepared test data for testing.
* Responsible for execution of ETL test cases and Worked with ETL SME groups and business analyst for understating mappings for dimensions and facts
* Participated in regular project status meetings related to testing and Login defect
* Reporting testing status report and Prepared status summary reports with details of executed, passed and failed test cases.
* Interacted with developers, Business & Management Teams and End Users.

**Education**

* **VKR VNB & AGK COLLEGE OF ENGINEERING - Gudivada (INDIA)**

Bachelor of Technology - Electronics and Communication Engineering