# Hari Krishna Kandala 900W Rand RD

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# Professional Summary:

* 4+ years of experience as a Data Analyst in Banking, and Healthcare domains with a good exposure to various phases of the Software Development Life Cycle **(SDLC)** including Analysis & Design, Development, Testing, and User Training.
* Proficient in Requirements Gathering, Surveys/Questionnaire Development, Business Requirements Documentation **(BRD)**, Functional Requirement Specifications/Documentations **(FRS/FRD).** • Strong exposure to Data Projects, performing Source to Target Data Mappings, Data Transformations, Data Cleansing, Data Deduplication & Consolidation, Data Validations and Data Audits across multiple projects involving millions of data rows.
* Performed automated data extraction and migration into targets, such as Data Warehouses, Data Lakes using

**ETL** tools and technologies like **Azure Data Factory**, and **SQL Server Integration Services**.

* Experience of **SQL** in constructing tables, joins, indexed views, indexes, complex stored procedures, triggers, and useful functions to facilitate efficient data manipulation, and consistent data storage in accordance with business standards.
* Proficiency in **Microsoft Excel** Data Cleansing, Data Transformations, Data Analysis and Visualizations using Math, Statistical, Logical, and other functions, Vlookups, Macros, Pivot Tables, Pivot Charts and Graphs. • Worked extensively with Data Architects and Data Modelers to create systematic processes for data extraction, transformation, and analysis.
* Experience in monitoring data flows and analyzing data lineages.
* Worked on several Python packages like **NumPy, SciPy, Pandas, TensorFlow, Keras, Matplotlib, Seaborn,** etc. to conduct **EDA** (Exploratory Data Analysis) for identifying patterns, trends, and relationships among various features within the data.
* Experience in enhancing **data quality** and **data consistency** using **Oracle EDQ,** a data quality tool. • Extensive experience in the development and implementation of various statistical, **machine learning, and deep learning models** and extract valuable insights to make data-driven decisions with **Python, R, Rapid Miner, XLMiner,** and **WEKA**.
* Experience in designing, developing, and publishing rich and intuitively interactive reports/dashboards, and scorecards using **Tableau Desktop, Tableau Public, Tableau Server, PowerBI, and QlikView.** • Actively participated in Post-Production Validation (**PPV**), production support, and handling of issues. **•** Experience in executing projects using various Software Development Lifecycle (SDLC) methodologies – **Waterfall, Agile (Scrum/Kanban).**

# Education:

* **Master of Science in Data Science Oct 2021-May 2023, Lewis University Romeoville, IL, • Bachelor of Science in Computers and Science 2013-2017 ,Andhra University, Visakhapatnam, Ap**

**Technical Skills:**

Oracle Enterprise Data Quality (EDQ), MS Excel

**Data Quality & Analysis Tools**:

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| **Data Mining & Machine Learning Tools:** | Rapid Miner, XLMiner, WEKA |
| **Data Analytic Tools**: | Tableau, Power BI, QlikView |
| **IDEs**: | Jupyter Notebook, PyCharm, R Studio, Google Colab, Microsoft Visual Studio, SSMS |
| **ETL Tools**: | Microsoft Azure Data Factory, Oracle EDQ, SSIS |
| **Programming Languages**: | SQL, Python, C++, R |
| **RDBMS**: | Oracle, MySQL, PostgreSQL, Microsoft SQL Server |
| **Methodologies**: | Waterfall, Scrum (Agile), Kanban (Agile) |
| **Project Management Tools**: | Jira, Hive, Six-Sigma |
| **Collaboration Tools:** | SharePoint, Confluence, MS Teams, Slack, WebEx |

**Professional Experience:**

**American Express, Phoenix, Arizona AUG 2022 – Present Business Intelligence Analyst Project Description:**

**American Express** Financial Services required a robust **Sanction Screening System** to identify suspicious customers

within their credit risk portfolio. Through data mining and machine learning techniques, this project automated analysis of vast data volumes, generating real-time alerts and reports for application users. Leveraging third-party data providers like Watchlist Screening, the system effectively tracked fraudulent and suspicious customers.

**Responsibilities:**

* Identified and gathered relevant data sources, including financial statements, credit histories, and customer data from multiple relational databases ensuring data integrity and reliability.
* Explored **Azure Data Factory** for ETL activities to extract data from various UBS data sources, created **pipelines** and employed multiple map, filter, aggregate, and join techniques for **data flow transformations** and loaded to a common target area for data analysis.
* Determined the key risk factors and variables to be included in the risk assessment model by gathering statistical details and doing **EDA (Exploratory Data Analysis)** to gain insights into the data distribution, patterns, and relationships among the included risk factors using **Python NumPy, SciPy, Sci-kit learn, Matplotlib and Pandas packages.**
* As part of the team, built Machine Learning (ML) and Deep Learning (DL) models using relevant algorithms, such as **logistic regression, decision trees, random forests, gradient boosting, or Neural Networks** based on the business requirements in **Jupyter Notebooks.**
* Assisted in training and validating the model using appropriate methodologies, such as cross-validation and performance metrics like **accuracy, precision, recall, and area under the curve (AUC)** using **Python**

# Visualization packages such as Matplotlib, and Seaborn.

* Fine-tuned the model parameters and conducted robustness testing and sensitivity analysis to ensure optimal performance.
* Collaborated on a regular basis with domain experts and project managers to validate the model's results and interpretability using **JIRA Agile/SCRUM** methodologies.
* Collaborated with IT teams to deploy the enhanced risk assessment model into the existing banking infrastructure.
* Integrated the model with other systems, such as loan origination platforms and other decision support systems.
* Performed testing and quality assurance to ensure the model's functionality and accuracy in the production environment using Python. Identified potential model drift or changes in risk factors and adjusted the model accordingly using **Python.**
* Continuously monitored the model's performance and conducted periodic reviews to ensure it remains accurate and effective by generating dashboards and reports using data visualization tool **Tableau.** • Collaborated with Risk Management teams (Product Owner and Stakeholders), to incorporate feedback and update the model based on changing business requirements or regulatory guidelines.

**Environment:** Jupyter Notebooks, Tableau Server 2022.1, Tableau Desktop 2022.1, SQL Server, Azure SQL Database, Microsoft Azure Data Factory v2, Python 3.10.0, Azure Data Lake storage gen2, Azure Blob Storage gen2.

# Genpact Mar 2019 – Sep 2021 Data Analyst Project Description:

Led a project to enhance data quality in the client management system by implementing DQ cleansing rules, establishing a fuzzy match framework, and creating custom DQ reports. Utilized Oracle EDQ, Tableau, Python, and Excel for data analysis, visualization, and complex transformations. Resulted in improved customer data accuracy, streamlined decision-making, and enhanced data quality metrics.

**Responsibilities:**

* Gathered requirement specifications from business stakeholders, analyzed business and technical data requirements, and conducted gap analysis for Customer origination and maintenance activities. • Created **Technical Design Documents**, **Design Process Flow diagrams**, and provided efforts and estimations for **data migration** and ongoing enhancements.
* Extracted data from Bank’s **Core Banking Platforms** and **Card Data Environments** and developed **EDQ Data Profiles** for entities like Customer Profile, Sites and Addresses, Contact Points, Marketing Preferences, Banking Products (Cards and Accounts) with both business and technical rules, **generating data assessment reports** and performing **KDE analysis**.
* Prepared **Data Quality (DQ) metric reports** with **scorecards**, grouping metrics under defined DQ dimensions, and integrated them with **Tableau BI** for **Dashboard** representation.
* Implemented **DQ cleansing rules** for Key Data Attributes using **EDQ Processors**, followed by Entity Name/Address cleansing, data standardization, and Address Verification of Customer Data. • Established a **fuzzy match framework** for customer deduplication, implementing a match strategy using **EDQ CDS (Customer Data Service)** package to score best match case results.
* Implemented a **Match Review process in EDQ**, enabling efficient data decision making, Survivor-Victim

Identification, store merge decisions, and producing final golden Customer data records.

* Created **custom DQ reports** by leveraging exposed views from EDQ to showcase data quality dimensions, improvements, and establish **baseline DQ metrics** for the new MDM System.
* Designed and developed Python modules to implement complex data transformations and cleansing rules (e.g., complex token matching, **regex matching,** and transformations) to expedite delivery. • Utilized **Tableau** extensively to generate DQ Dashboards and metric reports for business users, providing ongoing updates on the progress of Data Quality improvements made to the Customer data.

**Environment:** Oracle Database Server, Oracle Enterprise Data Quality (EDQ), Tableau Server 2020.3x, Tableau Desktop 2018.3.x, Python 3.6.

# VORTROID IT SOLUTIONS PVT.LTD Nov 2017 – Feb 2019 Junior Data Analyst Project Description:

**Financial Services Dashboard,** a comprehensive financial dashboard that provides a clear and concise overview of the financial performance and health of the organization. The dashboard focuses on presenting key financial KPIs to aid executives, managers, and stakeholders in making informed decisions and monitoring the financial well-being of the company on a regular basis.

**Responsibilities:**

* Part of a 10-member team that managed various Business Intelligence tools such as **QlikView, Qlik Sense, Cognos**, and other in-built reporting applications.
* Collaborated with financial analysts, business managers, and executives, to understand the **Key Performance Indicators(KPIs)** to track and the data sources available.
* Worked with the data engineering team to perform data migration and **ETL** (Extract, Transform, Load) processes, utilizing **SQL Server Integration Services (SSIS)** for seamless data transfer between systems. ● Expertise in SQL query writing, including complex joins, subqueries, aggregations, and procedures to retrieve and manipulate data from relational databases.
* Performed quality assurance and testing of **SQL Server** environment.
* Designed the layout and structure of the **QlikView** financial services dashboard, ensured it is user-friendly, intuitive, and visually appealing with appropriate charts, graphs, and other visualizations to present the KPIs effectively.
* Performed **dashboard testing** across multiple tools to verify the accuracy of the data and the correctness of calculations.
* Validated the insights and visualizations gained, to ensure they met the standards specified by stakeholders. ●

Optimized the dashboard's performance to ensure that it loads and responds quickly, even with large datasets.

* Collaborated with technical and non-technical stakeholders to gather feedback on complex data insights and make necessary improvements based on their input and changing business needs.
* Documented the **data model**, data sources, scripts, and visualizations to ensure that other team members can

understand and maintain the dashboard in the future.

* Supported the dashboard post-implementation, to address issues, make updates as needed, and ensured its continued relevance as business requirements evolve.
* Managed multiple projects simultaneously and prioritized tasks effectively.
* Proven ability to collaborate with cross-functional teams, including software developers, financial analysts, and business stakeholders, to understand business and other requirements.

**Environment:** QlikView 11.2, Cognos Business Intelligence Analysis 10.2.x, MySQL Server 5.6, SQL Server Integration Services (SSIS) 2014, SQL Server Management Studio (SSMS) 2014 v 12.0.x.x, Microsoft Visual Studio 2013 v 12.0