CHAITANYA KRISHNA MUPPARAJU

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EXPERIENCE

Data Analyst II, Cyber Nirvana, Irving, TX, US February 2025 – October 2025

- Applied **master data management (MDM)** principles and **data governance best practices** to improve accuracy, consistency, and integrity of product master data across an e-commerce retail client. Mapped and standardized 200K+ SKU records across categories, resolving data conflicts and duplication issues to establish a single source of truth for downstream reporting and operations.
- Built **Python-based automation scripts** in Jupyter Notebook for product classification and category alignment, leveraging **Generative AI and LLMs** to automate tagging and attribute enrichment. This significantly reduced manual data correction effort and accelerated the onboarding of new product lines into the reporting pipeline.
- Led **data standardization initiatives** by harmonizing units of measurement, naming conventions, and category hierarchies across procurement and inventory records. Developed **Excel VBA macros** to automate monthly statistical reporting, facilitating efficient updates during daily project briefings and stakeholder reviews.
- Contributed to UAT, integration testing, and deployment activities to validate data pipelines and reporting outputs prior to production release. Collaborated with business and technical teams to resolve data quality issues, supported a small analytics team in end-to-end validation, and ensured smooth delivery of reporting artifacts throughout the project lifecycle.

Data Analyst, Texara Solutions, Houston**, TX US** February 2024 – November 2024

- Built and deployed **Tableau dashboards** connected to **SQL Server** to monitor workforce KPIs including attrition rates, headcount trends, and departmental performance. Delivered actionable insights to HR leadership, enabling data-driven decisions on hiring, retention, and workforce planning.
- Designed and maintained **SQL Server** data models to support workforce analytics, writing complex queries — joins, subqueries, and aggregations — to extract and validate employee, attrition, and payroll data across departments. Ensured data consistency across reporting layers, enabling accurate headcount and performance tracking across the organization.
- Conducted **exploratory data analysis (EDA)** using **Python (Pandas, Seaborn)** to uncover patterns in employee attrition, performance cycles, and engagement trends. Generated insights that informed HR strategy and guided the development of targeted retention initiatives for key business units.
- **Collaborated with a cross-functional analytics team responsible for dashboard development, data validation, and performance reporting. Worked closely with HR stakeholders to refine reporting requirements, align on KPI definitions, and deliver consistent, high-quality analytical outputs on schedule.**

Business Data Analyst, iConsult Collaborative at Syracuse University, **Syracuse, NY, US** January 2023 - December 2023

- Utilized **Microsoft SQL Server** to compile and maintain healthcare client data from multiple sources, including electronic health records (EHRs), adhering to HIPAA guidelines for regulatory compliance. Conducted data cleaning and integrity checks, improving accuracy by 70%, and developed advanced statistical analyses, including clinical risk tracking, trend identification, and predictive modeling, to support healthcare management and decision-making.
- Developed and maintained interactive dashboards in **MS Power BI**, including a **patient emergency room report dashboard**, to display key healthcare metrics and trends. Leveraged DAX and Power Query to automate processes and reduce manual effort by 30%. Delivered intuitive visualizations and ad-hoc analyses to monitor real-time performance, identify trends, and support value-based program analytics, enabling data-driven decisions for clinical and operational improvements.
- Created comprehensive artifacts, including BRD, FRS, and SRS, to streamline business processes and align with healthcare standards. Collaborated with stakeholders to prioritize analytic objectives and optimize workflows, enhancing reporting accuracy through integration with Epic electronic medical records and building uniform data repositories for regulatory and strategic evaluation needs.

Business Analyst, Wells Fargo, **Bengaluru** September 2020 - October 2021

- Designed and maintained executive dashboards using Tableau for tracking loan processing efficiency, fraud alert metrics, and customer satisfaction KPIs across retail and commercial banking operations. This initiative led to a 20% improvement in data visibility for senior leadership and enhanced decision-making on sales, risk, and operational performance.
- Collaborated with cross-functional teams of over 20 members to optimize data workflows and reporting cycles by integrating large financial datasets from GCP (BigQuery) and Azure platforms. Leveraged SQL across Oracle, PostgreSQL, and MySQL databases for complex data retrieval, achieving a 15% boost in performance and supporting regulatory reporting and audit readiness.
- Utilized JIRA to manage change requests and sprint planning, while conducting in-depth ad-hoc analyses in Excel using

regression models, correlation, forecasting, pivot tables, and A/B testing. Developed documentation in Confluence to ensure continuity in reporting processes and knowledge sharing across teams.

TECHNICAL SKILLS & CERTIFICATION

- **Programming Languages:** SQL, Python (Pandas, Matplotlib, NumPy, Sklearn, Seaborn, Ggplot2, Plotly), R, Power Query, Statistics (Hypothesis Testing, A/B Testing), SAS
- **Database:** MySQL, MySQL Server, ERP, PostgreSQL, AWS (Redshift, RDS, DynamoDB, S3), NoSQL, Snowflake
- **Skills**: Jira, Agile, SDLC, Data Engineering, Business Intelligence/ELT Automation, Git, GitHub, Excel, Power Query, Data Cleaning, Data Mining, Data Wrangling, Critical Thinking, Communication Skills, Presentation Skills, Problem-Solving.
- **Cloud:** AWS (Glue, Redshift, Quick sight, EC2, Athena, CloudWatch)
- **Visualization Tools:** Tableau, Power BI (DAX), Microsoft Excel (Lookup, correlation, regression, Pivot Tables,Pivot Charts,3D Maps, Power Query, Solver Optimization, forecasting, Power Pivot), MS Access (Queries), Google Analytics, Orange Data Mining, Looker, Alteryx, Google Data Studio, SSRS, SSIS.
- **Prototyping and Design:** Wireframing, UX/UI Design, User Journey Mapping, A/B Testing, User Behavior Analysis
- **Certifications:** Certified Scrum Master (CSM), Lean Six Sigma (Green Belt) | Career Essentials in Data Analysis (Microsoft & LinkedIn Learning)

Projects

NYC Collision Analysis - Tableau

- Integrated multiple data sources to create dynamic visualizations, identifying over 11,846 motor vehicle collisions in 2022, supporting strategic, data-driven decision-making for city planners by developing Tableau Server dashboards that highlighted a 2% reduction in traffic-related injuries and mapped accident hotspots and trends through the synthesis of complex data into compelling narratives, indicating 36% of collisions occurred in Brooklyn and aiding stakeholders in targeted resource allocation and safety improvements.

Music analytics dashboard - AWS Quicksight

- Architected a serverless data lake architecture and a dynamic data processing pipeline, utilized AWS S3 for handling 10,000+ live data streams, enabled real-time streaming via Amazon Kinesis, and automated ETL processes with AWS Glue Studio for seamless data integration into AWS Redshift Data Warehouse; crafted interactive dashboards in AWS QuickSight for insights on trending artists and tracks, utilizing AWS Athena for efficient data querying.

Hotel booking cancellation prediction analysis – R

- Conducted Exploratory Data Analysis (EDA) on 70,000+ data points to identify KPI gaps and trends, provided recommendations by informing strategic marketing to significantly reduce booking cancellations, and tuned SVM model to achieve 85%+ accuracy, enhancing predictive analytics for booking cancellations, which guided pivotal decisions on deposit policies, customization, and partnerships, boosting customer retention.

European Football Analytics: Predictive Modeling and Performance Insights - Python

- Led an in-depth analysis of player, match, and league data across Europe's top five football leagues using Python, resulting in a 20% increase in predictive accuracy for match outcomes. Employed advanced data preprocessing and analysis techniques, reducing data processing time by 30%, and developed predictive models and performance evaluations, yielding strategic insights into match outcomes and league dynamics. Utilized sophisticated visualization tools like bar charts and swarm plots to effectively represent team predictability and integrated diverse data sources, ensuring data quality and consolidation, which revealed critical insights such as a 15% impact of player transfers on team dynamics.

Library Management System - SQL/ MS Power Apps

- Developed an MSSQL-based library management system that streamlined book tracking and transaction processing while generating detailed usage reports, implemented rigorous data cleaning protocols to ensure data integrity and operational reliability, and designed and executed an intuitive user interface with MS Power Apps, optimizing accessibility for library staff and patrons, thus enhancing user engagement.

Education

Syracuse University, Syracuse, New York January 2022 - December 2023
Master of Science: Information Systems.
Coursework: Database Administration Concepts and Database Management (SQL), Scripting for Data Analytics (Python), Project Management (MS Project), Information Systems Analysis, Visual Analytics Dashboard (Tableau/ Power BI), Business Analytics, Applied Machine Learning (R, Orange Data Mining), Human Interaction W/Computers, Intro to data science (R).

International School Of Management Excellence, Bengaluru June 2018 - May 2020
Postgraduate Diploma in Management – Major Finance | **Minor –** Business Analytics
Coursework: Business Intelligence, Database Management Systems (SQL), Big Data Analytics, Data Warehouse (SSIS, SSAS),

Financial Analytics, Banking and Financial Compliance, Applied Corporate Finance