

Vempalli Vinay Kumar Reddy | Business Analyst

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PROFESSIONAL SUMMARY

- Detail-oriented Business Analyst having 3+ years of experience with strong expertise in Python and SQL, specializing in data-driven decision-making and business intelligence.
- Proficient in working with databases such as MySQL, MongoDB, and Oracle, and skilled in data analysis frameworks like NumPy, Pandas, and Matplotlib.
- Experienced in creating insightful data visualizations using Tableau, Power BI, and Excel, enabling effective communication of complex data to stakeholders.
- Adept at conducting comprehensive analyses, including GAP analysis, SWOT analysis, cost/benefit analysis, and impact assessments, to guide strategic business decisions.
- Skilled in developing and managing detailed Functional Requirement Documents (FRD), Business Requirement Documents (BRD), and Software Requirements Specifications (SRS) to align business needs with technical solutions.
- Hands-on experience with AWS for cloud-based data management and analysis, and proficiency in advanced tools like Docker, SAS, and Jupyter Notebook for efficient data processing.
- Strong project management skills, utilizing Agile (Scrum) and Waterfall methodologies, and experience in tools like Jira, Asana, and Confluence for effective project execution.
- Committed to continuous improvement and process optimization, leveraging Lean Six Sigma principles to drive business efficiency and enhance operational performance.

TECHNICAL SKILLS

Languages	Python, SQL
Databases	MySQL, Mongo DB, Oracle
Frameworks	NumPy, Pandas, Matplotlib, Seaborn, Matplotlib, Plotly
Visualization Tools	Tableau, Power BI, Excel
Cloud	AWS
Analytical Skills	Data Cleaning, Data Mining, Problem-solving, Critical Thinking, Data Modelling, Data Architecture, Flow Diagrams, Data Profiling, Statistics, Cost/benefit analysis, Impact analysis, GAP analysis, Risk analysis, SWOT analysis, A/B Testing, FRD, BRD, Software Requirements Specification (SRS), Use Case Diagram.
Core Skills:	Exploratory Data Analysis, Data Cleansing, Data Visualization, Business Intelligence, Business Data Warehousing, Business Requirement Analysis, Agile Project Management
Tools	Git, GitHub, Docker, SAS, Google Collab, Jupyter Notebook VS Code, SAP, Jira, Asana. Kanban, Lean Lean Six Sigma, Confluence
Methodologies	Agile (Scrum), Waterfall

PROFESSIONAL EXPERIENCE

Syneos Health Business Analyst	Jan 2024 – Current
<ul style="list-style-type: none">Utilized Python, SQL, and Excel to extract, transform, and analyze data, enhancing data-driven insights and reporting capabilities, and significantly improving decision-making processes in clinical development and commercialization efforts.Developed interactive dashboards and reports using Tableau, enabling stakeholders to visualize key metrics and trends, facilitating data-driven strategic decisions, and streamlining clinical trial operations.Conducted comprehensive impact analyses to assess the effects of organizational changes within diverse therapeutic areas, providing actionable recommendations that optimized outcomes and reduced operational costs.Developed and implemented interactive dashboards and data visualizations using Tableau, translating complex clinical and commercial datasets into actionable insights, driving informed decision-making and operational efficiency.Collaborated with cross-functional teams to develop and document business requirements (BRD), ensuring alignment with stakeholder objectives, which contributed to the successful execution of numerous projects.Designed and maintained process models to streamline workflows, enhancing operational efficiency in development and commercialization, leading to improved overall business performance.Conducted in-depth data trend analysis and forecasting using advanced analytics tools, enabling proactive identification of business opportunities and risks, which supported strategic planning and improved stakeholder confidence.Leveraged SAP for enterprise resource planning and SAS for advanced analytics, improving data management, reporting, and decision-making processes across various business functions related to clinical trials and medical affairs.Utilized advanced Excel functionalities, including pivot tables and data analysis tools, to create detailed reports that informed strategic decisions, driving business growth in the rapidly evolving market.	
Mphasis Business Analyst	Mar 2021 – Jul 2022
<ul style="list-style-type: none">Leveraged SQL, Python, and Excel to extract, transform, and analyze data, enhancing data-driven insights and reporting capabilities, which resulted in a 25% reduction in reporting time.Utilized Tableau to create interactive dashboards and reports, enabling stakeholders to visualize key metrics and trends, which contributed to a 30% increase in data-driven decision-making.	

- Conducted comprehensive impact analyses to assess the effects of organizational changes, providing recommendations to mitigate risks and optimize outcomes, which contributed to a reduction in operational costs and increased productivity.
- Conducted cost-benefit analyses and ROI assessments for various projects, resulting in strategic resource allocation and improved profitability, leading to increased revenue and reduced costs.
- Collaborated with cross-functional teams to develop and document business requirements (BRD) ensuring thorough alignment with stakeholder objectives and project deliverables, which contributed to a high success rate in project delivery and reduced project timelines.
- Utilized quantitative methods, SAP, and data analytics techniques to perform root cause analyses and identify opportunities for process improvement, leading to a reduction in process cycle time and enhanced quality.
- Implemented data cleansing and manipulation techniques to ensure the accuracy and reliability of datasets, facilitating informed decision-making, which resulted in a high accuracy rate in data-driven insights and reduced decision-making time.
- Designed and maintained process models to streamline workflows and enhance operational efficiency, contributing to overall business performance with reduced operational costs and increased productivity.

Sage Softtech
Business Analyst

Jan 2020 – Feb 2021

- Utilized Python to automate data extraction, transformation, and analysis, streamlining business processes and reducing manual intervention in data management tasks.
- Developed and optimized complex SQL queries in Oracle to extract, transform, and load data for business intelligence reports, enhancing data retrieval efficiency and supporting strategic decision-making processes.
- Created end-to-end test scenarios and test scripts to validate system functionalities, ensuring adherence to business requirements for IT and business process outsourcing projects.
- Authored detailed Functional Requirement Documents (FRD) and Use Case Diagrams, capturing system requirements, business rules, constraints, and workflows and ensuring clear communication and alignment among stakeholders.
- Performed thorough SWOT analyses to identify strengths, weaknesses, opportunities, and threats for various business projects. Utilized findings to develop strategic plans and recommendations for business improvement.
- Proficiently used SAP for enterprise resource planning and SAS for advanced analytics, enhancing data management, reporting, and decision-making processes across various business functions.
- Created visually compelling dashboards and reports using Power BI, effectively communicating insights, performance metrics, and actionable recommendations to stakeholders.
- Employed Git for version control, ensuring consistency and traceability across project documentation and code repositories.
- Utilized advanced Excel functionalities, including pivot tables, VLOOKUP, conditional formatting, and data analysis tools, to create detailed reports and data visualizations that informed strategic decisions.

PROJECTS

Predicting the Longevity of NBA players using Python

- Utilized data imputation techniques to address missing values and data noise, enhancing accuracy during data cleaning.
- Developed a predictive model to forecast NBA player longevity using data mining techniques, securing 1st place out of 15 groups with an accuracy of 73.12%.
- Applied logistic regression, decision tree, and neural network algorithms to build and refine the predictive model.
- Validated model performance with cross-validation techniques to ensure reliable and robust predictions.

Oracle Database Implementation for Insurance Company

- Designed and implemented an Oracle database for an insurance company, following a structured approach.
- Created an Entity-Relationship (ER) diagram to map table relationships, identify primary and foreign keys, and guide database design.
- Developed the database schema based on the ER diagram and populated tables with initial data.
- Executed and validated queries to ensure the database functioned as intended and met the expected results.

EDUCATION

Masters in Advanced Data Analytics
University of North Texas
Bachelor of Technology, ECE
SASTRA Deemed to be University

May 2024

May 2021