

Prasanth Tirumalasetty

Business Analyst III

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SUMMARY:

Results-driven Business Analyst & Data Analyst with 10+ years of experience delivering enterprise-scale business and technical solutions across SAP, Data Analytics, and .NET environments. Adept at bridging the gap between business needs and technical implementations by gathering requirements, analyzing data, and translating insights into actionable solutions. Strong expertise in SAP Logistics, Sales & Distribution, Data Visualization (Power BI, Tableau, KNIME), SQL, ETL, and Cloud Data Platforms (AWS, Azure, Databricks). Experienced in end-to-end project lifecycles, including requirement analysis, system configuration, integration, testing, and production support. Skilled in data modeling, machine learning, dashboard development, and process automation, with a proven track record of improving efficiency, accuracy, and decision-making.

TECHNICAL SKILLS:

- **SAP Modules:** SD, WM, Logistics, Fiori, SAP BI/BW, SAP Data Services
- **Data & Analytics:** SQL (Oracle, Hive, Teradata), Power BI, Tableau, KNIME, Qlik Sense, Python (Pandas, Matplotlib), R, Excel (Pivot, VLOOKUP, Macros)
- **ETL & Big Data:** AWS Glue, Hadoop, Spark, Databricks, Informatica
- **Web & Integration:** .NET Core, API/RFC Integration, Salesforce, Azure DevOps
- **Project Tools:** JIRA, ServiceNow, SharePoint, Kanban, Agile/Scrum
- **Others:** Git, SQL

WORK EXPERIENCE:

Applied Medical

Rancho Santa Margarita, CA

Business Analyst III

08/2023 – Present

- Collaborated with cross-functional teams to gather requirements and design SAP Logistics and Warehouse Management solutions (inbound/outbound processes, inventory optimization, RF scanner program).
- Conducted ad-hoc analysis and presented findings to stakeholders to facilitate data-driven decision-making.
- Configured SAP SD (Sales & Distribution) for sales order processing, pricing, billing, and master data management; implemented solutions for intercompany and third-party sales.
- Utilized Fiori applications for enhanced user experience and streamlined business processes in logistics and sales.
- Collaborated with business users to gather requirements and translate them into functional specifications for SAP solutions.
- Integrated SAP Logistics/SD with Finance and Production Planning modules, supporting end-to-end process continuity.
- Managed configurations for various SAP Logistics components, including Warehouse Management (WM).
- Designed and implemented solutions for complex business scenarios in SAP SD, such as intercompany sales, third-party sales, and special sales orders.
- Developed a custom RF scanner solution to validate batch/serial numbers on barcodes, ensuring packing/shipping accuracy and compliance.
- Designed and deployed a .NET Core web application integrated with SAP via API and RFC, automating Order-to-Cash workflows (RMA, stock conversion, re-shipment, automated tracking, and reporting).
- Proposed automated workflows for seamless integration of barcode scanners and web applications, reducing manual effort for stakeholders.
- Collaborated with development teams to integrate web applications with various external systems, including workflow engines and Azure DevOps, ensuring end-to-end functionality.
- Automated access management for new employees in SAP, assigning specific roles based on completed training, eliminating manual role creation.
- Integrated this program with SAP to accurately validate and track kit components, ensuring precise inventory management and order fulfillment.
- Provided ongoing support and maintenance for integrated applications, troubleshooting issues, and implementing enhancements.
- Collaborated with leadership and utilized Figma for UI/UX page design, supporting decision-making for .NET Core web application components.
- Built interactive dashboards in Power BI for logistics KPIs, enabling real-time visibility for business stakeholders.
- Conducted system testing, UAT, and end-user training for SAP and web application rollouts, and provided post-go-live support for SAP logistics and SD modules.

TrendSet IT | Siemens Healthineers

Cary, NC

Business Analyst

05/2023 – 08/2023

- Designed and maintained Tableau/Power BI dashboards for sales and operations metrics, improving visibility of customer trends and KPIs.
- Conducted ETL processes using AWS Glue, Python, and R, transforming large datasets from SAP and Enterprise Data Warehouse.
- Leveraged data visualization techniques to present complex data clearly and concisely, facilitating understanding for stakeholders.
- Developed advanced SQL queries in Oracle PL/SQL and Hive/Hadoop to support data-driven decisions.
- Demonstrated expertise in database management, including designing conceptual databases and ensuring data accessibility for end-users.
- Researched emerging technologies and industry practices to stay up to date with the latest trends and incorporate innovative solutions into data analysis processes.
- Leveraged prior operational experience in technology sales, business development, OEMs, and Carrier sales to understand the specific needs and challenges of the organization.
- Collaborated with cross-functional teams to define data requirements, develop data collection strategies, and align analytical efforts with business objectives.
- Partnered with stakeholders to define KPIs and deliver insights into customer behavior, supporting sales and OEM/Carrier business units.
- Utilized ServiceNow for requirement tracking and SharePoint for test case/document management.
- Managed relationships with external consultants, providing guidance and collaborating on data-related projects.

DTE Energy

Detroit, MI

Business Analyst

08/2022 – 04/2023

- Built predictive models in Tableau to forecast storm-impacted areas, automating SAP service order creation based on resource needs.
- Developed forecasting dashboards in Power BI/Tableau using Hive/Spark jobs in Databricks for electricity/gas usage analysis.
- Applied Pandas, data cleaning, and visualization techniques to transform raw data into actionable insights.
- Compiled weekly reports for the management team to reflect transportation needs and goals to achieve 100% guest satisfaction.
- Optimized transportation processes, including implementing guest practices and driver queues, and increased productivity that led to a sharp drop in complaints through the in-house support ticketing system.
- Used CMMI for documenting and standardizing your data analysis methodologies, establishing well-defined data collection processes, and ensuring consistency and repeatability in the analytical approach.

- Coordinated database development for incoming New Customer data to migrate from the legacy database into Power BI.
- Worked on Informatica tool - Source Analyzer, Data warehousing designer, Mapping Designer Mapplets, and Transformations Developer.
- Worked in Excel Spreadsheets in creating Pivot tables, Lookups, Macros, Etc.
- Coordinated data migration into Power BI from legacy systems to support regulatory and operational reporting.
- Partnered with multiple departments, designed Power BI dashboards, and created ad-hoc reports to improve transportation costs and customer satisfaction KPIs.
- Experience with dimensional modeling using star schema and snowflake models. Utilized transformations like Source qualifier, Expressions, Joiner, Aggregators, Lookups, Filter, Rank, and Update Strategy.

TrendSet IT | Tata Consultancy Services

Remote

SAP Business Analyst

09/2021 – 08/2022

- Developed a pricing condition tool in SAP, mapping A* Tables to calculate costs and integrate with Salesforce for global discount/rebate management.
- Built a web dashboard application to manage costs, calculate customer pricing, and facilitate the copying of existing pricing structures to new countries, integrated with SAP/Salesforce for pricing, customer discounts, and document management.
- Interacted with the Software development team and Business users in helping developers to understand the business requirements, Functional requirements BRD, and FRD, thereby ensuring the proposed applications comply with the business specifications.
- Conducted JAD sessions involving the user community to identify, analyze, and formalize requirements and establish working relationships with business functions and solution delivery teams to meet the individual needs of the business functions.
- Involved in the complete Software Development Life Cycle (SDLC) and handled key responsibilities in Project Management.
- Worked as a part of the scrum team, in an Agile methodology with sprint cycles, daily stand-ups, and story implementation.
- Worked in Agile (JIRA) methodology for sprint-based SAP & Salesforce enhancements.
- Conducted ETL-based data migration between SAP and Salesforce.
- Worked in Data Migration from SAP to Salesforce using ETL Operations. File splitting, case creation, and Different Work environments, such as Tableau.
- Supported the development and operation of data standardization processes, including creating detailed standard operating procedures that led to a 15% decrease in required training time for new team members.
- Audited accounts receivable reports using SQL to prepare resident billing upload to the client to maintain accounts receivable on time and with an accuracy objective of 98.5%.
- Leveraged tools such as SAP Data Services and more to design data models, perform A/B testing, and deploy packages to enable RealPage utility management products and quantitative data analysis.
- Designed, developed, and processed documentation to produce required reporting, analytics, and visualization deliverables using Power BI and SAP BI/BW.
- Provided data insights, dashboards, and online campaign analytics through Google Analytics to determine the organization's needs to engage customers, develop user segmentation, and identify business opportunities.
- Collaborated with teams such as marketing and billing across the organization to develop cross-functional processes and improve Onesite platform capabilities around data modeling, testing, and data visualization.

Accenture | Total Energies

Hyderabad, INDIA

Business Analyst

06/2019 – 09/2021

- Developed a .NET Core and React web application for a European oil & gas company, integrating SAP, CRM, and EDI to manage the entire sales and billing cycle, including RFP, WBS, Easy Cost Planning, sales order creation, and invoicing (DocOnline), with forecasting for sales, costs, and stock management.
- Developed a Forecasting Web Application (SCP tool) with UX design and backend integration into SAP HANA tables.
- Led the development and testing of a B2C SaaS product, collaborating across teams to ensure quality delivery.
- Implemented an SAP HANA solution integrated with XML and OData web services, delivering UI apps such as APPTIO-SCP Reporting Tool for predicting sales, costs, and budgets, and My RFS Application for managing RFS, Amendments, and Offers.
- Developed and managed file interfaces and batch job chains to automate invoice and attachment delivery to external customers via Doc Online (J6NY).
- Implemented three new process chains for secure, sequential file transmission with Salesforce and ensured proper synchronization of data back into SAP.
- Worked on production support tickets, resolving SD-related issues, reporting issues, and SLA-based incident management using Remedy.
- Collaborated directly with business end users and IT teams, participating in Scrum meetings and Agile ceremonies (sprint planning, stand-ups, sprint reviews, retrospectives).
- Worked on PS topics including WBS, amendments, cost centers, responsible person assignments, Easy Cost Planning, FI/CO postings, and time sheets (CAT2, CAT7).
- Troubleshoot and resolved SD functional issues in order processing, pricing, billing, output determination, EDI, and master data for distribution environments.
- Configured SAP SD organizational units and customized sales, delivery, and billing documents to meet global requirements (US, Europe, Middle East, India).
- Implemented batch management, including batch determination, splits, classification, and strategies.
- Worked on ATP checks, availability, transfer of requirements, backorder processing, rescheduling deliveries, and sales BOM.
- Performed end-to-end scenario testing, unit testing, integration testing, coordinated UAT, managed go-live activities, and provided post-go-live support.
- Configured text determination, output determination, condition types, condition tables, access sequences, and pricing procedures to meet customer pricing requirements.
- Created functional specifications for enhancements in TMS and SAP, collaborating with developers to debug custom programs and transactions.
- Worked on Logistics Execution (LE), including shipping, picking, packing, delivery scheduling, loading groups, shipping conditions, and shipping point determination.
- Collaborated with technical teams to enhance EDI functionality with SAP and non-SAP systems using IDocs; created functional specifications for new integrations.
- Extracted and analyzed data from SQL Server using joins and subqueries to support purchasing, production, and marketing processes.
- Designed a centralized ODS data warehouse and built denormalized structures to improve query performance.
- Created ETL specifications, built and deployed SSIS packages, and performed data validation, integration testing, and UAT.
- Analyzed finance and marketing databases to identify trends and built predictive scenarios for strategic decisions.
- Integrated SAP SD with legacy CRM platforms and external systems to enable smooth data exchange.
- Worked on FI topics, including the creation of internal orders and accounting documents.

- Defined KPIs/metrics, measured adoption through analytics and surveys, and reported feature/story status to Program Management.
- Worked with the Program Manager to define the product roadmap, determine MVP features, and plan sprints.
- Queried and reported data using SQL, Power BI, and Excel for dashboards and ad-hoc analysis.
- Conducted demos, training sessions, and workshops, prepared detailed training documents, and created user guides, implementation guides, and release notes.
- Developed prototypes in InVision and collaborated with UI/UX teams to refine designs.
- Advocated for end-user needs, ensuring features aligned with usability and business requirements.
- Managed the product backlog in Jira, prioritized dependencies, and coordinated with Product Owners and Project Managers.
- Collaborated with CTO, Program Manager, and Architect to align features and strategy with overall vision.
- Led integration efforts across applications, implementing real-time APIs and batch processes (HIPAA EDI, flat files).
- Oversaw SSO integration for web/mobile applications.
- Implemented Azure cloud-based solutions to improve scalability and performance.
- Participated in drafting SOWs, TPAs, SLAs, and MOUs with vendors and agencies.
- Collaborated with Test Manager to create test plans and E2E test cases.

ADSA Global Solutions

Hyderabad, INDIA

SAP SD Functional Consultant / Business Analyst

05/2017 – 06/2019

- Established a global e-commerce presence by integrating a web application with SAP, supporting worldwide product sales with a full Order-to-Cash (OTC) process, including billing, invoicing, logistics, and order fulfillment.
- Configured the SAP SD module for sales operations across the US, Europe, the Middle East, and India, enabling expansion into new markets and distinct sales areas.
- Built an e-commerce website integrated with SAP for global sales and developed a web application for internal product/pricing management, seamlessly connected to SAP.
- Integrated SAP with 3PL vendors and EDI customers to streamline logistics, shipping, and order processing.
- Worked on Sales Orders, Deliveries, and Invoices based on business requirements, including outbound delivery processes with and without warehouse integration.
- Defined transportation groups and shipping types, configured custom delivery types, and developed custom shipping and invoice outputs aligned with business needs.
- Wrote functional specifications for GAP enhancements in TMS and SAP, collaborating closely with developers to debug custom programs/transactions and resolve user-reported issues.
- Gathered business requirements, designed process solutions, and set up organizational elements within SAP to align with global operations.
- Led the Order-to-Cash (OTC) configuration, including master data, pricing, free goods, item proposals, material determination, cross-selling, output control, sales documents, item categories, schedule line categories, delivery documents, and billing documents.
- Prioritized and planned workload as a Lead of the Sales & Distribution team, ensuring timely delivery of SAP SD solutions for global operations.

CarzyDeal

Gurugram, INDIA

Software Engineer

06/2015 – 05/2017

- Led the development and integration of a dealership registration web portal, implementing secure onboarding with email and phone number OTP verification via MSG91.
- Designed and deployed a dynamic pricing dashboard enabling bulk price uploads, market trend prediction, and real-time car price adjustments and discount provisioning directly within SAP.
- Collaborated with cross-functional teams to ensure seamless integration between the portal, dashboard, and SAP, optimizing data flow and system functionality.
- Gathered and analyzed business requirements, translating them into clear technical specifications to guide development and ensure alignment with project goals.
- Conducted User Acceptance Testing (UAT) to validate system functionality and user experience, addressing issues before production rollout.
- Provided ongoing support and enhancements for the portal and dashboard, incorporating user feedback to improve usability and performance.

PROJECTS:

Title: DeepCPG: Accurate Prediction of Single-Cell DNA Methylation States using Deep Learning

Overview: Implemented and evaluated DeepCPG, a deep learning–based computational model combining CNN and GRU architectures to accurately predict missing DNA methylation states in single-cell sequencing data, enabling more reliable genome-wide epigenetic analysis.

Key Accomplishments:

- Led the development and integration of a dealership registration web portal, implementing secure onboarding with email and phone number OTP verification via MSG91.
- Designed and trained modular DeepCPG components (DNA, CpG, Joint modules) to capture predictive patterns from DNA sequences and CpG neighborhoods.
- Applied the model on multiple datasets (mouse embryonic stem cells, hepatocellular carcinoma, HepG2) using scBS-seq and scRRBS-seq, achieving higher accuracy than baseline and Random Forest approaches.
- Optimized performance with dropout regularization, weight decay, and Adam-based stochastic gradient descent, reducing overfitting.
- Discovered associations between learned sequence motifs and biological features (DNase1 hypersensitive sites, histone modifications, CpG-rich/poor contexts), providing insights into methylation variability.
- Built reproducible pipelines in Python (Theano, Keras) for preprocessing, training, and benchmarking deep learning models in genomics.

Title: Car Price Prediction using Linear Regression & Decision Tree Models

Overview: Developed a predictive model to forecast automobile prices in the U.S. market using a Kaggle dataset (10k rows, 27 columns). The project analyzed key factors influencing car pricing and applied multiple machine learning models to improve prediction accuracy, supporting data-driven decision-making for market expansion strategies.

Key Accomplishments:

- Performed data preprocessing and cleaning, handling null values, dropping irrelevant features, and preparing categorical and continuous variables for modeling.

- Conducted exploratory data analysis (EDA) with scatter plots, histograms, pair plots, and heatmaps to visualize variable relationships and correlations with car price.
- Built and evaluated multiple regression and decision tree regression models, comparing performance using Mean Squared Error (MSE) and R^2 metrics.
- Applied train-test split and cross-validation techniques to improve model reliability and reduce overfitting.
- Identified significant predictors of car prices and regional differences in pricing trends, providing actionable insights into consumer and market behavior.
- Delivered recommendations on the best-fit predictive model for accurate pricing strategies.

Title: Forest Cover Classification for Carbon Sequestration Optimization

Overview: Developed a machine learning-based solution to classify and predict forest cover types in the Roosevelt National Forest (Colorado) using environmental and topographical data. The project aimed to identify optimal tree species for carbon sequestration, supporting climate change mitigation through afforestation and reforestation strategies.

Key Accomplishments:

- Collected and analyzed a dataset of **56 features and 15,120 rows**, including soil type, wilderness area, cover type, distance from water resources, and wildfire points.
- Applied classification and clustering algorithms such as Logistic Regression, KNN, and Random Forest to predict forest cover types and optimize tree selection for specific soil and climate conditions.
- Conducted correlation analysis to identify key factors influencing forest growth and carbon absorption, including soil type, water proximity, and fire risk.
- Designed a workflow for data preprocessing, train-test split, and model evaluation using metrics like accuracy, F1 score, and precision.
- Proposed strategies for both reforestation (restoring lost forest cover) and afforestation (planting new trees), tailored to different wilderness areas (Rawah, Neota, Comanche Peak, Cache la Poudre).
- Delivered insights on how tree species distribution impacts CO₂ sequestration potential, contributing to long-term carbon removal and climate resilience.
- Incorporated findings from global initiatives like the Bonn Challenge and TeamTrees to align project outcomes with proven reforestation programs.

EDUCATION:

University of Michigan

Master of Science in Data Science; GPA: 3.77

Dearborn, MI
08/2021 – 04/2023

LICENCES AND CERTIFICATIONS:

- Winning with Walmart Bootcamp – [Verification Link](#)
- IBM Data Science – [Verification Link](#)
- SOLID & GRASP – [Verification Link](#)
- Workday for Accenture All-Star – [Verification Link](#)
- Software Development on SAP HANA – [Verification Link](#)
- SAP Fieldglass – [Verification Link](#)
- Built-In Analytics in SAP Business ByDesign – [Verification Link](#)
- SAP Ariba Start Sourcing – Starter Kit – [Verification Link](#)
- SAP Fiori Overview: Design, Develop, and Deploy – [Verification Link](#)
- Establishing Effective Virtual Teams – [Verification Link](#)
- Web Development – [Verification Link](#)