

# Bhargavi Chukkapalli

## Business Analyst

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## SUMMARY

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Business Analyst with over 3 years of experience in business and data analysis, specializing in ETL development, and business intelligence. Expert in leveraging SQL, Python, Tableau, and AWS to drive operational efficiency and deliver actionable insights. Proficient in managing SDLC processes, creating comprehensive BRDs, and applying Agile methodologies to enhance project outcomes. Adept at collaborating with cross-functional teams and stakeholders to implement robust solutions, optimize data processes, and achieve strategic business objectives

## TECHNICAL SKILLS

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- **Programming Languages:** Python, SQL, NoSQL
- **Cloud Technologies:** AWS S3, IAM, EC2, Amazon Quick Sight, Athena, Amazon Redshift, AWS Glue
- **Data Visualization Tools:** Tableau, Power BI, Excel
- **Database Technologies:** MySQL, MongoDB, Oracle, PostgreSQL, Amazon RDS
- **Machine Learning:** NumPy, Pandas, Seaborn, Matplotlib, Scikit-Learn, k-Nearest Neighbors, SVM, Random Forest, Decision Trees, K-Means Clustering
- **Other skills and tools:** ServiceNow, JIRA, Data structures, Git, MS Office, Snowflake

## PROFESSIONAL EXPERIENCE

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Garmin, KS

Business Intelligence Analyst

October 2024 – Current

- Partnered with data engineers and operations teams to implement ETL processes, writing and optimizing SQL queries for efficient data extraction, ensuring alignment with analytical requirements
- Proficient in AWS services (EC2, S3, Lambda, Redshift, QuickSight), driving a 20% improvement in data processing efficiency, cost reduction, process automation, and faster analytics for data-driven decision-making
- Analyzed over 500,000 real-time logistics and route optimization data points using Tableau and QuickSight as part of Garmin's Fleet Management solutions
- Improved fleet routing strategies by identifying inefficiencies and implementing data-driven improvements, resulting in a 20% reduction in transportation costs and enhanced delivery performance
- Developed interactive data visualizations using Tableau and Matplotlib to transform complex datasets into actionable insights
- Applied advanced data cleaning and transformation techniques and delivered presentations to showcase key insights and recommended solutions
- Monitored transportation logistics and optimize freight routes to minimize lead times and transportation cost
- Produced detailed analytical reports by executing SQL queries on relational databases, delivering in-depth business analytics and insights to inform decision-making
- Automated ETL workflows using Snowflake to streamline the ingestion and transformation of billions of data rows, drastically reducing manual effort and boosting operational efficiency by 70%
- Utilized Scikit-learn techniques, including feature selection, normalization, and label encoding, to enhance predictive model performance and reduce training time
- Developed models and algorithms using Python (NumPy, Pandas, Scikit-learn, Seaborn) for advanced data analysis.
- Coordinated Agile Scrum meetings with LOB and Data Operations teams, improving issue resolution and collaboration, resulting in faster project completion times in information technology projects
- Implemented effective data models using both dimensional and physical strategies for relational databases, improving data retrieval efficiency and enabling real-time insights for fleet management operations

Accenture pvt ltd, India

Business Analyst

March 2020 – December 2022

- Extracted and analyzed data from SAP ERP systems using SQL and relational databases, developing KPIs and real-time reports for O2C and P2P processes, improving cycle efficiency and reduction in delays
- Cleaned, transformed, and manipulated data to optimize reporting and analytics workflows, ensuring data consistency and accuracy across various business processes
- Developed a forecasting algorithm by leveraging historical data and key operational variables, reducing process delays and improving overall efficiency
- Created 15+ interactive Tableau visualizations, including scatter plots, geographic maps, pie charts, bar charts, and heatmaps, enhancing data accessibility and leading to a 20% increase in campaign ROI
- Streamlined data processing tasks using advanced Excel functions, including pivot tables and VLOOKUPs, enhancing reporting efficiency and accuracy
- Utilized Business Intelligence tools, including data warehousing, reporting and querying tools, Data mining, and advanced spreadsheets
- Executed web scraping and data processing workflows using Python libraries like Beautiful Soup, Pandas, and NumPy. Processed over 10 million data points with 97% accuracy by implementing advanced reconciliation scripts to ensure data quality
- Used advanced predictive analytics and machine learning models with Python (Pandas, NumPy) to forecast demand and optimize inventory management, achieving a 15% reduction in carrying costs
- Enhanced business intelligence initiatives by mining and manipulating data using advanced algorithms, leading to a 20% increase in data accuracy and a 35% reduction in report generation time
- Led requirement gathering, documentation, and stakeholder communication in information technology projects; prioritized and refined user stories in Agile, supporting backlog management and sprint planning in Scrum to ensure alignment with business objectives and successful project delivery

## PROJECTS

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### Zillow Data Analytics

- Constructed a robust data pipeline for Zillow Data Analytics using Python, RapidAPI, and Apache Airflow on an EC2 instance, optimizing data acquisition and workflow processes to enhance processing speed by 30%
- Deployed an AWS-integrated data framework featuring S3, Redshift, and QuickSight; improved visualization, reduced manual reporting and expedited trend analysis

### Electric Vehicle Analysis using Tableau

- Analyzed electric vehicle usage trends across the U.S. from 2014 to 2024, using interactive visualizations to showcase increases in vehicle numbers, average electric range, and state distributions of BEVs and PHEVs
- Built an interactive Tableau dashboard that visualized state-wise adoption rates, manufacturer preferences, and clean alternative fuel vehicle eligibility

## EDUCATION

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### Master of Science in Computer Science

University of Central Missouri, Lee summit, MO

May 2024

### Bachelor of Technology in Electronics and Communication Engineering

Amrita School of Engineering, Bengaluru, India

June 2020