

Vishal Brahmananda

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PROFESSIONAL EXPERIENCE

CENCORA Business Intelligence Analyst	Chicago, IL June 2023 – December 2023
<ul style="list-style-type: none">Pioneered data reporting frameworks with Power BI and SQL Server to decrease customer churn by 10% and increase retention rates by 5% through critical insights.Deployed machine learning models and data modeling techniques, which optimized process efficiency and contributed to substantial operational improvements, including a revenue increase of \$250K annually.Created metrics and dashboards using Power BI, enhancing data visualization and reporting, resulting in more data-driven decisions.Examined and identified data patterns and trends through comprehensive analysis using Python and SQL, improving decision-making, addressing critical business questions, and boosting operational performance by 25%.Led projects using Agile methodologies and Scrum, collaborating cross-functionally with departments to gather requirements and deliver tailored business intelligence solutions, ensuring alignment with goals and improving performance.Streamlined ingestion and processing by managing Azure-based data pipelines, enhancing efficiency and scalability, reducing processing time by 30%.Incorporated Power Query to automate data transformation tasks, reducing manual efforts and improving report accuracy and timeliness by 40%.	

Canopus GBS Senior Data Analyst	Bangalore, India September 2021 – June 2022
<ul style="list-style-type: none">Translated business needs into requirements and implemented analytics solutions, including the creation of 5+ Business Requirements Documents (BRD).Constructed data-driven initiatives using Python with NumPy, pandas, and scikit-learn to develop predictive and statistical models with machine learning, transforming complex data into strategic insights to drive business growth and operational efficiency by 15%.Directed ETL processes using PySpark, Azure Data Factory, and Synapse Analytics for extracting, transforming, and loading data, improving data integration and reporting effectiveness, and decreasing data handling time by 35%.Analysed and facilitated solutions using Tableau, creating 10+ dashboards that increased organizational metrics reporting efficiency by 20%.Established and followed standard operating procedures using Python automation and shell scripts for recurring processes, streamlining operations and reducing manual processing time by 40%, ensuring consistent and efficient data management.	

ONWARD Technologies Business Data Analyst	Chennai, India October 2020 – August 2021
<ul style="list-style-type: none">Prepared and presented comprehensive reports to stakeholders, highlighting key findings and actionable recommendations, facilitating informed strategic decision-making.Leveraged Microsoft SQL Server Management Studio (SSMS) to connect to data warehouses, analyzed query access paths and results, and applied tested SQL query statements for efficient data manipulation.Developed SQL queries and Python scripts to analyze and visualize large datasets, supporting data-driven decisions in construction and mining equipment production, optimizing maintenance schedules, reducing downtime by 20%, and enhancing operational costs by 15%.Incorporated tools such as JIRA and Microsoft Visio, along with methods like SWOT Analysis and Surveys for requirement analysis, to elicit, analyze, and document business requirement, ensuring the success of system and software development projects.Generated ad hoc reports to meet immediate business needs, leveraging data from diverse sources and utilizing advanced data analysis software, delivering critical insights for senior-level decision-making.	

EDUCATION University of Illinois at Chicago	Chicago, IL August 2022-December 2023
MS in Business Analytics Dayananda Sagar University	Bangalore, India August 2016-May 2020
Bachelors in Electronics and Communication Engineering	

ADDITIONAL EXPERIENCE UIC Department of Disability and Human Development Business Intelligence Analyst Intern	Chicago, IL January 2024 – Present
<ul style="list-style-type: none">Led analysis of US Census disability data using SAS, Excel VBA, and pivot tables, identifying employment trends and crafting reports with Power BI and DAX, enhancing decision-making and driving strategic actions.Administered a robust data harmonization project utilizing R, standardizing and integrating employment data for disabled US populations, increasing analytical efficiency by 10% and streamlining service delivery and operational workflows.	
Aeronautical Defence Establishment (DRDO) Financial Data Analyst Intern	Bangalore, India January 2020 – May 2020
<ul style="list-style-type: none">Performed financial forecasting, annual business planning, and variance analysis using Excel and SQL, reconciling internal accounts to assess strategic decision alternatives and enhance financial accuracy.Facilitated month-end, quarter-end, and year-end closing processes, ensuring GAAP compliance, and prepared financial analyses using Python and Power BI for cost-saving performance measures, contributing to a 15% reduction in expenses.	

PROJECTS Heart Disease Prediction Using Machine Learning	
<ul style="list-style-type: none">Performed EDA on patient datasets using Python and implemented machine learning models with TensorFlow, Random Forest, and SVM, achieving 91% accuracy and reducing readmission rates by 25%.Designed a comprehensive Power BI dashboard for real-time visualization of patient health metrics, providing healthcare providers with actionable insights, improving decision-making efficiency by 30%, and enabling early intervention strategies.	
Kansas University Baseball Scouting Analysis	
<ul style="list-style-type: none">Revamped and enriched the Master Data management of complex baseball datasets through a Python-based overhaul, achieving an 80% reduction in complexity.Conducted an in-depth analysis of player performance using statistical modeling, enhancing game-time strategic decisions by 30%.	
Air Quality Analysis & Index Prediction	
<ul style="list-style-type: none">Crafted an innovative AQI algorithm with Python and Pandas, merged with Matplotlib for visual insights, delivering a model that not only met air quality standards but also enriched environmental health analysis accuracy.Applied Random Forest regression techniques post-exploratory Data Analysis (EDA) to develop an advanced predictive model, achieving an 82% accuracy rate in AQI forecasting, thereby providing actionable insights for environmental health initiatives.	

SKILLS Programming and Scripting: Python, R, Java, SQL, Unix, CSS, HTML Big Data and Cloud Computing: Apache Hadoop, Spark, Hive, Kafka, PySpark, NoSQL, AWS, Azure, GCP, Azure Database, Cosmos DB, Oracle, Snowflake, SSIS, SPSS Data Science and Analytics: PowerBI, Tableau, Alteryx, Looker, Congos, TensorFlow, Scikit-learn, PyTorch, Classification, Docker, A/B Testing, NumPy, Pandas Project Management and Collaboration Tools: Jira, Git, Agile, Scrum, Visio	
CERTIFICATION Certified in Data Analytics Essentials (Cisco), Google Data Analytics (Google), DP-900: Microsoft Azure Data Fundamentals, Six Sigma white belt (CSSC), SQL Intermediate (Hacker Rank)	