

Vishal Brahmananda

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EDUCATION

University of Illinois at Chicago

MS in Business Analytics

Dayananda Sagar University

Bachelors in Electronics and Communication Engineering

Chicago, IL

August 2022-December 2023

Bangalore, India

August 2016-May 2020

SKILLS

Programming and Scripting: Python, R, Java, SQL, Unix, 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, TensorFlow, Scikit-learn, PyTorch, Classification, Docker, A/B Testing, NumPy, Pandas

Project Management and Collaboration Tools: Jira, Git, Agile, Scrum

EXPERIENCE

UIC Department of Disability and Human Development

Chicago, IL

Business Intelligence Analyst

January 2024 – Present

- Led the analysis of US Census disability data using SAS, enhancing data manipulation with Excel VBA and pivot tables, which uncovered key insights into employment with disability and informed a data-driven advocacy strategy, improving policy engagement.
- Designed BI reports centered on employment disparities within disabled populations using Power BI and DAX, providing stakeholders with pivotal data modeling and analysis that boosted decision-making effectiveness by 25%.
- Directed a data harmonization project targeting employment among the disabled in the US, leveraging Python and R for sophisticated data modeling, which resulted in a 20% uplift in project efficiency and depth of analytical insights.

CENCORA

Chicago, IL

Cybersecurity and DevSecOps Analyst

June 2023 – December 2023

- Orchestrated network security protocols under NIST, HIPAA, and HITECH standards, reducing security incidents by 50% through strategic enhancements in SAST/DAST protocols, and utilizing Power BI and Splunk for critical risk analysis and KPI monitoring.
- Managed security architecture design and validation, delivering detailed engineering specifications with recommended vendor technologies, which contributed to the prioritization of security technology adoption and process enhancements, resulting in a 40% increase in process efficiency.
- Catalyzed DevSecOps pipeline efficiency by integrating Jenkins and Docker with AWS, accelerating deployment cycles by 20% and fortifying system reliability, while championing the implementation of SQL analytics to advance data governance.

Canopus GBS

Bangalore, India

Data Analytics and Integration Specialist

September 2021 – June 2022

- Developed and enforced a comprehensive data governance policy that heightened data accuracy by 20%, diminishing data-related errors by 15%, and collaborated on data-driven initiatives that augmented revenue by 25% while reducing operational costs by 30%.
- Formulated and maintained predictive models using advanced analytics, which catalyzed a 10% increase in sales and a 5% rise in customer retention, driving forward strategic business decisions.
- Spearheaded an ETL optimization project using PySpark and PL/SQL, boosting data availability for analytics by 30% and increasing data processing efficiency by 15% through the design of Django web applications for SAP HANA health checks, enhancing BI data workflows.
- Orchestrated the development of critical reports and interactive Tableau dashboards, fostering a 15% increase in productivity and a 10% uplift in customer satisfaction, while also refining reporting processes across enterprise groups by 20%, ensuring greater specification precision.

ONWARD Technologies

Chennai, India

Business Data Analyst

October 2020 – August 2021

- Orchestrated a data analysis overhaul using Teradata, Hadoop, and Spark, improving query efficiency and streamlining batch processing, contributing to a 10% uplift in business process efficiency and bolstering data-driven decision-making.
- Facilitated over 6 requirements analysis sessions using Agile methodology, which doubled as development workshops, directly resulting in a 30% enhancement of service metrics and better alignment with business objectives.
- Managed TensorFlow predictive modeling, refining product features based on data insights, and contributed to a 95% increase in client satisfaction, ensuring products met evolving market demands.
- Developed automated ETL processes that enriched data warehouse operations, augmenting data accessibility by 30% and processing efficiency by 15%. Also crafted interactive Tableau dashboards to facilitate real-time analytics, resulting in a 15% lift in productivity.
- Partnered with QA teams to craft test cases and coordinate UAT, enhancing product quality by 40% as evidenced by a significant reduction in defect rates within the first six months post-launch.

Aeronautical Defense Establishment (DRDO)

Bangalore, India

Financial Data Analyst Intern

January 2020 – May 2020

- Drove an 11% uplift in finance system efficiency by architecting and deploying a data management protocol that optimized the reporting process, enriching the foundation for strategic investment decision-making through in-depth spending analysis and responsive ad-hoc reporting.
- Instituted a comprehensive forecasting and reporting system that bolstered financial data precision by 14%, ensuring heightened accuracy and ready availability of financial records and investment reports.

PROJECT

United Airline's Performance Data Visualization

- Leveraged Tableau to analyze 50,000+ Bureau of Transportation Statistics (BTS) records, unveiling pivotal insights that propelled United Airlines into the top three for on-time performance within the industry.
- Directed data visualization strategies that yielded a 15% improvement in operational efficiency, refining the decision-making process for executive stakeholders.

Kansas University Baseball Scouting Analysis

- Modernised a Python-based overhaul of complex baseball datasets, achieving an 80% reduction in complexity, thus streamlining scouting processes and empowering strategic talent acquisition.
- Conducted an in-depth analysis of player performance using statistical modeling, enhancing game-time strategic decisions by 30% and playing a pivotal role in driving the team's success in competitive tournaments.

Air Quality Analysis & Index Prediction

- 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.

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)