

Vishal Brahmananda

Chicago, IL | +1 (312) 978-7928 | vishalbr1999@gmail.com | linkedin.com/in/vishal-brahmananda | Portfolio

EDUCATION

University of Illinois at Chicago
Master of Science in Business Analytics

December 2023
Chicago, IL

Dayananda Sagar University
Bachelor of Technology in Electronics & Communication Engineering

May 2020
Bangalore, India

SKILLS / CERTIFICATION

Technical Proficiencies: Advanced expertise in Python, R, Java; database management with MySQL, PostgreSQL, SQL Server, NoSQL; machine learning using Tensorflow, Keras, Scikit-learn; data visualization with Tableau, Power BI, Matplotlib, Seaborn.

Development & Data Engineering: Proficient in SDLC, Agile, ETL processes, Snowflake, SSAS, Docker; project tracking with JIRA; version control with Git; large-scale data handling with Hadoop, Apache Spark, Databricks, GCP and Azure cloud services.

Data Analysis Expertise & Technical Tools: Strong in data modeling, statistical analysis, predictive modeling; experienced in Excel analytics, Office Suite, Alteryx, and Dynamics 365; experienced in implementing business intelligence solutions and optimizing data warehousing processes.

Certifications & Soft Skills: Certified in Data Analytics Essentials (Cisco), Google Data Analytics (Google); proven project management, communication, team collaboration, and stakeholder engagement abilities.

EXPERIENCE

University of Illinois at Chicago
Research Data Analyst Assistant

January 2024 – Present
Chicago, IL

- Leveraged Tableau to create interactive visualizations for disability employment, delineating clear trends for stakeholders and driving a 30% increase in decision-making efficacy based on data insights.
- Applied Python's **NLTK** and **spaCy** libraries to conduct **sentiment analysis** on over 1,000 pieces of employee feedback.
- Engineered predictive models using Python's **scikit-learn** to forecast employment rates within the disability sector, providing a 90% accuracy rate and empowering organizational planning with robust, forward-looking analytics.

CENCORA

Information Security and Data Analyst Intern

June 2023 – December 2023
Chicago, IL

- Led comprehensive security assessments and integration of SAST/DAST in development processes using Burp Suite, OWASP ZAP; achieved a 30% increase in vulnerability detection and a 50% reduction in security breach risks.
- Facilitated a robust **DevSecOps** pipeline, utilizing **Jenkins** for automation and **Docker** for containerization, which accelerated the **CI/CD** process by 20% and enhanced system reliability by reducing downtime by 10%.
- Enhanced data analysis with advanced **SQL** and Python, leading to a 25% boost in data precision and 40% faster insights for key metrics, supported by **Power BI**.

Canopus GBS Private Limited

Data Integration and Visualization Analyst

September 2021 – June 2022
Bangalore, India

- Engineered **Python**-based applications using Django framework, integrating **Pandas** and **NumPy** for data analytics, leading to a 15% enhancement in system performance and user experience.
- Implemented Python for backend development and optimized **SQL** using ETL for processing over 500GB datasets, achieving a 30% improvement in data handling efficiency.
- Conceptualized and automated the creation of over 20 analytical dashboards using **Tableau**, **Matplotlib**, and **Seaborn**, resulting in a 20% quicker data visualization and interpretation for stakeholders.

ONWARD Technologies Private Limited

Data Analysis Engineer

October 2020 – August 2021
Chennai, India

- Refined **Java**-based applications leveraging the Spring framework, integrating **Azure** cloud services for scalable data processing, leading to a 10% improvement in system performance and aligning with data analysis best practices.
- Implemented **Hadoop** and **Apache Spark** to conduct large-scale data analysis, enhancing business process efficiency by 10% and contributing to more data driven business decisions.
- Spearheaded **predictive modeling** initiatives using **TensorFlow**, boosting client satisfaction rates to 95% by applying strategic data-driven enhancements to improve product offerings.

PROJECT

United Airline's Performance Data Visualization

- Performed a detailed Tableau analysis of over 50,000 BTS records, deriving insights that positioned United Airlines within the industry's top three for on-time performance.
- Directed a competitive analysis, utilizing data visualization to enhance operational efficiency by 15%, thereby streamlining decision-making processes for key stakeholders.

Kansas University Baseball Scouting Analysis

- Preprocessed and analyzed a baseball dataset with Python, Pandas, and Seaborn, cutting data complexity by over 80%, vital for UIC's strategic preparation against Kansas University in the tournament.
- Leveraged advanced statistical tools for comprehensive player performance and strategy analysis, aiding in a 30% enhancement of UIC's tactical decision-making in crucial tournament games.

Air Quality Analysis & Index Prediction

- Devised an Air Quality Index (AQI) calculation algorithm based on hourly pollutant data, adhering to established air quality standards, and conducted comprehensive exploratory data analysis (EDA) using Python, Pandas, and Matplotlib.
- Developed a Random Forest Regressor model to predict future AQI values, achieving a high accuracy rate of 84.13% with Scikit-learn.