

Vishal Brahmananda

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EDUCATION

University of Illinois at Chicago
Master of Science in Business Analytics

December 2023
Chicago, IL
May 2020
Bangalore, India

Dayananda Sagar University
Bachelor of Technology in Electronics & Communication Engineering

EXPERIENCE

CENCORA

June 2023 – December 2023

Information Security and Data Analyst Intern

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

September 2021 – June 2022

Data Integration and Visualization Analyst

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** 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

October 2020 – August 2021

Data Analysis Engineer

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.

Aeronautical Development Establishment (ADE)

January 2020 – May 2020

Electronics Project Analyst Intern

Bangalore, India

- Executed an in-depth data analysis of UAV flight control systems using **Python**, scrutinizing over 50,000 data points to refine actuator precision and boost maneuverability by 30%.
- Employed advanced data science libraries including **Pandas**, **NumPy**, and **TensorFlow** to enhance UAV flight dynamics modeling, leading to a 40km control range and a 15% increase in border surveillance efficiency.

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.

UIC Baseball Performance

- Leveraged predictive analytics in python to analyze player data over three years, boosting batting averages by 20% and pitching strategies by 15%, supported by comprehensive visual reports for team strategy optimization.
- Generated 15+ strategic reports with visualizations, aiding in player performance optimization and game strategy development.

Credit Card Fraud Detection

- Architected a fraud detection solution with Random Forest and K-Nearest Neighbors, achieving 99.8% accuracy and an F1-score of 0.63 by applying SMOTE for class balance.
- Analyzed over 284,000 credit card transactions using Python and advanced data science libraries, identifying fraudulent transactions with a 50% precision rate, aiding in the mitigation of financial risks for the bank.

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, and Azure cloud services.

Data Analysis Expertise & Technical Tools: Strong in data modeling, statistical analysis, predictive modeling; experienced in Excel analytics, 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.