Vishal Brahmananda

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EDUCATION

University of Illinois at Chicago · **December 2023**
Master of Science in Business Analytics · Chicago, IL

Dayananda Sagar University · **May 2020**
Bachelor of Technology in Electronics & Communication Engineering · Bangalore, India

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.

Kansas University Baseball Scouting Analysis
- Expertly preprocessed and analyzed a baseball dataset using Python, Pandas, and Seaborn, reducing data complexity by over 80%. This strategic analysis was instrumental in UIC's preparation for their tournament against Kansas University, enhancing team performance through data-driven insights.
- Leveraged advanced statistical tools for in-depth player performance and strategy analysis, contributing to a 30% improvement in UIC's tactical decision making during key tournament games, showcasing my ability to transform data into actionable strategies.

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, successfully achieving a high accuracy rate of 84.13%, demonstrating the model's effectiveness and reliability in environmental forecasting with Scikit-learn.

SKILLS / CERTIFCATION

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.