VISHAL BRAHMANANDA

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SUMMARY

- Data savvy professional skilled in sifting through vast datasets to elevate business strategies and operational efficiencies, with a strong foundation in **Python, R, SQL, Excel, Power BI, and Tableau**.
- Proficient in harnessing advanced data science libraries, including **NumPy, Pandas, Scikit-Learn, Matplotlib, PySpark, Seaborn, and ggplot2**, to conduct detailed data analysis and visualization.
- Capable of translating complex analytical findings into clear, actionable insights, supporting a data-driven approach to business problem-solving and decision-making.

EDUCATION

University of Illinois at Chicago	Chicago, IL
Master of Science in Business Analytics	August 2022 - December 2023
Dayananda Sagar University	Bengaluru, India
Bachelor of Technology in Electronics & Communication Engineering	August 2016 - May 2020

PROFESSIONAL EXPERIENCE

Data Analyst Intern   *June* 2023 – December 2023
AmerisourceBergen, USA

- Led data cleansing initiatives, improving data quality by 30% and ensuring robustness for strategic decision-making.
- Played a central role in gathering requirements from 5+ cross-functional teams, aligning 10+ projects with core business objectives.
- Developed and presented 20+ Power BI reports, providing actionable insights and visualizations to senior stakeholders.
- Applied statistical analysis to analyze data from 50+ sources, deriving key business insights and enhancing data-driven strategies.

Data Integration and Visualization Analyst   September 2021-June 2022
Canopus GBS Private Limited, Bangalore, India

- Developed and optimized Python-based web applications, enhancing data integration and resulting in a 25% improvement in user experience.
- Crafted 100+ SQL queries, bolstering database management and supporting the analysis of 10,000+ data records.
- Pioneered the design of 20+ interactive data visualizations using Matplotlib, aiding in a 30% faster data comprehension for users.
- Collaborated with 5+ cross-functional teams, ensuring 15+ data solution projects were delivered on time and aligned with business goals.
- Integrated Microsoft Azure services to process over 5 TB of cloud-based data, achieving a more scalable and secure application environment.

Data Analysis Engineer   October 2020-August 2021
ONWARD Technologies Private Limited, Chennai, India

- Developed and optimized Java applications using Spring Framework and Hibernate, leading to a 20% improvement in application performance and reliability.
- Leveraged SQL in tandem with Java to analyze 7,000+ data points, resulting in a 15% enhancement in business process efficiency.
- Rapidly addressed and resolved 50+ software defects, ensuring a 98% client satisfaction rate with product quality.
- Collaborated with cross-functional teams to translate complex data into actionable insights, contributing to data-driven decision-making.

SKILLS/CERTIFICATION

Programming Languages: Proficiency in languages such as Python, R, Java, HTML/CSS.
Database Systems: MySQL, PostgreSQL, Microsoft SQL Server, NoSQL.
Machine Learning and Data Visualization: Tensorflow, Keras, Scikit-learn, Pandas, Numpy, Matplotlib, Seaborn, Tableau, Power BI
, Alteryx, MS Excel (VLOOKUP, Pivot Tables), Microsoft Dynamic 365, Data warehousing, Business Intelligence.
Tools and Platforms: SDLC, JIRA, ETL, Snowflake, SSAS, Docker, Visual Studio, Azure, Agile, Git, Hadoop, Apache Spark.
Relevant Skills: Data Modeling, Project Management, Communication Skills, Team Collaboration, Process Improvement, Stakeholder Engagement, Statistics, Hypothesis Testing, Predictive Modeling.
Certification: Data Analytics Essentials by Cisco**,** Google Data Analytics by Google

PROJECTS

United Airline's Performance Data Visualization

- Produced a comprehensive Tableau visualization using the BTS dataset comprising 1M+ records, enabling a deep dive into United Airlines' on-time performance metrics.
- Leveraged data analysis to identify top competitors, revealing that Airlines ranked in the top 3 for punctuality in the airline industry.
- Offered actionable insights from the visualization, assisting stakeholders in strategic decision-making against competition.

Medicare Fraud Detection

- Developed ML models in R, achieving a standout accuracy of 93% in detecting Medicare fraud through meticulous parameter tuning and cross-validation.
- Evaluated and compared multiple analytical techniques, enhancing fraud prediction accuracy by analyzing 5,000+ insurance claims.
- Selected optimal models by assessing regression, decision tree, and boosting techniques, resulting in a 15% improvement in false positive reduction.

Optimizing UIC Baseball Performance: Predictive Analytics and Strategic Visualizations

- Analyzed 3+ years of historical baseball data, identifying player performance trends and areas of improvement for 150+ players.
- Developed predictive models that accurately forecasted key statistics, improving batting averages prediction accuracy by 20% and enhancing pitching effectiveness forecasts by 15%.
- Crafted intuitive visualizations and generated 50+ comprehensive reports, aiding players, and coaches in optimizing player positioning and shaping game strategies.