**AKSHITHA SINGAREDDY**

**Data Analyst**  
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**PROFESSIONAL SUMMARY**

Accomplished Data Analyst with 3+ years of expertise in transforming complex datasets into strategic business insights across Healthcare and Financial Services industries. Demonstrated proficiency in Python, SQL, Tableau, and Power BI to deliver predictive models that optimize operations and drive $2M+ in cost savings. Specialized in statistical analysis, machine learning, and executive reporting with proven ability to translate technical findings into actionable recommendations for C-suite leadership.

**TECHNICAL SKILLS**

* **Data Analysis & Programming:** SQL | Python (Pandas, NumPy, Scikit-learn, SciPy) | R | Excel (VBA, Pivot Tables, Advanced Functions)
* **Statistical Analysis & Machine Learning:** Regression Analysis | Forecasting | Classification | Clustering | A/B Testing | Predictive Modeling
* **Data Visualization:** Tableau | Power BI | Excel Dashboards | Matplotlib | Seaborn | Statistical Charts
* **Database Technologies:** SQL Server | PostgreSQL | MySQL | Snowflake | Query Optimization
* **Business Intelligence:** KPI Development | Trend Analysis | Performance Metrics | Executive Reporting
* **Data Management:** Data Cleaning | ETL Processes | Data Validation | Quality Assurance

**WORK EXPERIENCE**

**Data Analyst | United Health Group | San Antonio, TX | Feb 2023 – Present**

* Analyzed 500K+ patient records using SQL and Python to identify treatment efficacy trends, resulting in 15% cost reduction and improved patient care strategies for 3 major healthcare facilities.
* Engineered machine learning models with Scikit-learn to forecast patient admission rates across 10 departments, achieving 92% accuracy and reducing operational inefficiencies by 20%.
* Designed interactive Tableau and Power BI dashboards tracking 25+ healthcare KPIs including patient satisfaction, treatment outcomes, and cost metrics, enabling data-driven decisions for C-suite executives.
* Executed advanced statistical analysis on chronic disease patterns using regression models and hypothesis testing, identifying 5 key factors that improved treatment protocols by 18%.
* Automated Excel and Power BI reporting systems for 15+ stakeholders, reducing manual reporting time by 65% while delivering actionable insights that guided $1.2M strategic planning initiatives.
* Optimized complex SQL queries processing 2TB+ datasets, accelerating report generation by 50% and enabling real-time analytics for critical business decisions.
* Collaborated with cross-functional teams of 20+ clinical staff, administrators, and executives to translate business requirements into scalable analytical solutions.

**Data Analyst | HDFC Bank | India | Jun 2021 – Jul 2022**

* Developed predictive fraud detection models using Python and SQL, analyzing 1M+ transactions monthly to identify high-risk patterns, improving detection accuracy by 25% and preventing $800K in potential losses.
* Performed comprehensive customer analytics on 100K+ accounts, utilizing statistical methods and machine learning algorithms to predict churn and optimize retention strategies.
* Built interactive Power BI and Tableau dashboards displaying risk exposure and portfolio performance for senior management, supporting decisions affecting $50M+ in assets.
* Conducted exploratory data analysis on diverse financial datasets, uncovering 12 critical trends in customer behavior that informed product development and market expansion strategies.
* Implemented logistic and linear regression models to predict loan defaults with 89% accuracy, enabling proactive risk management and reducing default rates by 15%.
* Designed and analyzed A/B tests for 5 digital banking features, using statistical significance testing to measure customer engagement impact and drive 22% feature adoption rate.
* Streamlined monthly performance reporting through Excel-based automated dashboards, reducing manual effort by 60% while improving data accuracy and stakeholder satisfaction.

**EDUCATION**

* **Master of Science in Computer Science | University of Texas at Arlington| Arlington, Texas**
* **Bachelor of Technology in Computer Science | SR Engineering College | India**

**KEY ACHIEVEMENTS**

* Delivered $2M+ in combined cost savings through predictive analytics and operational optimization across healthcare and financial sectors.
* Achieved 92% accuracy in patient admission forecasting models, enabling proactive resource allocation for healthcare facilities.
* Enhanced fraud detection systems by 25%, preventing $800K+ in potential financial losses through advanced statistical modeling.
* Automated reporting processes that reduced manual effort by 60%+, improving efficiency for 30+ stakeholders across organizations.
* Successfully presented data-driven recommendations to C-level executives, influencing strategic decisions affecting $50M+ in assets.