Aditya Kulkarni

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SUMMARY

Data Analyst with extensive 4+ years of experience in developing and optimizing SQL databases, implementing predictive analytics models, and performing advanced statistical modeling using Python, R, and SQL. Proficient in data visualization with Tableau and Power BI, leading data integration projects with Apache Hadoop, and applying machine learning algorithms with Scikit-learn and TensorFlow. Proven track record of enhancing data security, improving patient outcomes.

EDUCATION

Syracuse University, Martin J Whitman School of Management — **Syracuse, NY**
Master of Science - Business Analytics | GPA - 3.5/4.0 — Aug 2022 - May 2024

Visvesvaraya Technological University — **Karnataka, India**
Bachelors in Electronics & Communication Engineering | GPA - 3.0/4.0 — Aug 2015 – July 2019

EXPERIENCE

Epic, USA — **Remote**
Data Analyst — May 2023 – May 2024

- Engineered and optimized SQL databases to support healthcare data management, resulting in a 30% improvement in data retrieval times and streamlined patient data processing
- Designed and implemented predictive analytics models using Python and R, improving patient outcome predictions by 25% and enabling proactive healthcare interventions
- Conducted advanced statistical modeling and hypothesis testing using Python's SciPy and Stats models libraries, providing insights that led to a 15% reduction in patient readmission rates
- Created interactive dashboards and reports using Tableau and Power BI to visualize patient data trends and clinical performance metrics, enhancing decision-making processes for healthcare administrators
- Led data integration projects that consolidated disparate healthcare databases into a centralized system, utilizing ETL processes and Apache Hadoop, resulting in a 20% increase in data accessibility and reliability
- Analyzed patient records and clinical data to identify patterns and anomalies, contributing to a 10% improvement in care quality and operational efficiency
- Applied machine learning algorithms to patient data using Scikit-learn, achieving a 22% increase in accuracy for patient risk stratification models, aiding in targeted healthcare interventions
- Ensured data security and compliance with HIPAA regulations by implementing robust data governance policies and encryption techniques, reducing data breach incidents by 35%

Infosys Limited — **Pune, India**
Data Analyst — July 2019 - Jun 2022

- Developed and optimized data models using Python and SQL, leading to a 25% improvement in query performance and reducing data retrieval times by 30%
- Led a predictive analytics project on customer churn for a major telecom client, utilizing machine learning algorithms in R and Python, which resulted in a 15% increase in customer retention rates
- Implemented statistical models using Python to analyze sales data for a retail client, identifying key trends and insights that drove a 20% increase in quarterly sales
- Conducted data mining and clustering for customer segmentation in the retail sector using Python and Tableau, enhancing targeted marketing strategies and boosting campaign ROI by 18%
- Streamlined ETL processes with Apache Hadoop and Spark, improving data processing speeds by 40% and ensuring real-time analytics capabilities for retail and customer data
- Utilized Tableau and Power BI to create interactive dashboards, providing stakeholders with actionable insights and reducing reporting time by 50%
- Developed predictive models using Python's scikit-learn and TensorFlow for a customer churn analysis project, accurately predicting churn with an 85% precision rate
- Automated data cleansing and validation processes with Python and SQL, enhancing data accuracy by 30% and reducing manual effort by 25%

SKILLS

Languages/Databases: MySQL, Microsoft SQL Server, ETL Pipelines, Python, R, SQLite3, IBM db2
Tools: Tableau, Power BI, Jupyter, RStudio, MS Excel, Google Analytics, Microsoft Access, Tableau Server, Minitab
Skills: Machine learning, Data Warehouse, Advanced Statistics, Lean Six Sigma, GRC, Snowflake
Libraries: Pandas, NumPy, Matplotlib, SciPy, Plotly, Scikit-learn, ggplot2, caret, Shiny, dplyr, NLTK, spaCy, XGBoost
Data Components: HDFS, Hue, MapReduce, PIG, Hive, HCatalog, HBase, Sqoop, Impala, Zookeeper, Flume, Kafka