Khiran Kumar Chidambaram Sivaraman

Data Analyst

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Dynamic Data Analyst with 3+ years of in-depth experience in transforming raw data into insightful knowledge, using powerful analytical tools such as SQL, Tableau, AWS, R, Python, and Excel. Adept at translating complex data into actionable strategies, I am dedicated to optimizing business performance through data-driven solutions.

Skills

Languages (Python, R, SQL, NoSQL, DAX),
Data Processing & Streaming (PySpark, Apache Kafka, Pandas, NumPy, Airflow, Snowflake, ETL, Data Modeling), **Machine Learning Algorithms** (Random Forest, Linear Regression, SVM, Decision Tree, ARIMA, Xgboost, TensorFlow, Keras, Scikit-learn, Statsmodels, Deep Learning Algorithms, LSTM),
Frameworks & Tools (Tableau, Power BI, Excel, SSMS, SSIS, SSRS, NodeJS, JIRA, GitHub, Hadoop, Spark, Matplotlib, Scikit Learn, AWS Redshift, AWS EC2, AWS S3, Docker, Jenkins, CI/CD Pipelines)

Professional Experience

Data Analyst, Radiance Technologies **08/2023 – present | Remote, USA**

- **Streamlined** data pipelines and integrated Salesforce, **boosting system responsiveness by 40%** using CI/CD practices with Jenkins.
- **Enhanced** financial reporting and data analysis clarity by executing precise SQL queries and utilizing Python libraries (Seaborn, Matplotlib, NumPy, Pandas).
- **Reduced t**argeted marketing costs by **20%** and manual errors by **25% t**hrough the implementation of customer segmentation techniques and automation of data validation checks.
- **Optimized** SQL queries and ETL jobs on AWS (S3, Redshift, Athena) and Snowflake, **increasing** data management **efficiency by 30%.**
- **Developed** and deployed dynamic visualizations in Power BI, enhancing decision-making and business insights. Collaborated with cross-functional teams to drive significant improvements in data systems and customer experience.

Data Analyst, Vanguard **03/2023 – 07/2023 | Pennsylvania, USA**

- **Optimized** Python-based **ETL pipelines**, extracting and transforming data from diverse sources (CSV, JSON, Excel) for MS SQL Server, saving over 10 hours weekly.
- **Developed** and maintained a **Tableau dashboard** for finance, analyzing over 15 KPIs which **enhanced decision-making by 25%.**
- **Led** the creation of a predictive model using Python libraries (Scikit-learn and Pandas) for an energy company, enhancing resource allocation and **boosting investment decision-making accuracy by 15%.**
- **Established** efficient project documentation practices by integrating JIRA with Confluence, ensuring comprehensive tracking and management of database changes.

Graduate Teaching Assistant, University of Maryland, Baltimore County **07/2022 – 09/2022 | Maryland, USA**

- **Conducted** code reviews and provided insightful feedback to 50 students in Intro to Data Analysis and Machine Learning, enhancing learning outcomes.
- **Authored and distributed** comprehensive solution keys for assignments, **promoting a collaborative learning environment.**
- **Completed** multiple professor-assigned projects, demonstrating effective project management skills and a commitment to academic excellence.

Data Analyst, HWASHIN Automotive Private Limited, **06/2018 – 12/2020 | Chennai, India**

- **Managed** data-driven quality control processes for raw materials, body parts, and chassis inspections using root cause analysis and advanced statistical tools, **minimizing losses and material waste by 10%.**
- **Applied MINITAB** for Process Capability Studies, **reducing** variation and enhancing product quality by **15%.**
- **Utilized** data analysis techniques such as Fishbone Diagrams and 8D methodology to troubleshoot and enhance quality, **leading to a 20% decrease in warranty claims.**
- **Played a key role** in new product quality assurance, contributing to a comprehensive understanding of automotive development and i**ncreasing customer satisfaction by 18%.**

Projects

- **Customer Segmentation:** Executed Python-based **Customer Segmentation** Analysis on 541,910 data points, creating targeted profiles and identifying key high-value segments through **RFM analysis**.
- **Sentiment Analysis:** Led a Sentiment Analysis project on COVID-19 using Python, analyzing 5,825 tweets with advanced models like **LSTM and Logistic Regression**, achieving **86% accuracy** and developing a Streamlit app for results visualization.
- **E-Commerce Churn Analysis:** Executed a Python-based **E-Commerce Churn Analysis**, applying machine learning models like **Random Forest (96% accuracy)**, and leveraging one-hot encoding, significantly enhancing data quality and predictive accuracy.
- **Neural Network Analysis:**Developed and automated a Python-based Neural Network Analysis of a heat pipe using hybrid nano-fluids, achieving **99% accuracy with DCNN** models in **TensorFlow**, enhancing system efficiency.

Education

Master of Professional Studies, *University of Maryland - Baltimore County* 01/2021 – 12/2022 | Maryland, USA
Data Science

Bachelor of Technology, *SRM Institute of Science and Technology* Mechanical Engineering 05/2016 – 05/2020 | Chennai, India

Publications

A convolutional neural network analysis of a heat pipe with Hybrid Nanofluids, *Kumararaja, K., Khiran Kumar, C. S. & Sivaraman, B*
International Journal of Ambient Energy 0