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, *Civis Analytics* 08/2023 – present | Remote, USA

- Executed precise SQL queries and utilized Python (Seaborn, Matplotlib, NumPy, Pandas, SciPy) for data analysis, enhancing financial reporting clarity. In addition implemented customer segmentation techniques to categorize clients based on various financial behaviors and characteristics.
- Automated data validation checks, reducing 25% manual errors and and managed intricate financial models in MS Excel.
- Streamlined data pipelines, integrated Salesforce, and improved system responsiveness by 40% through CI/CD integration with Jenkins.
- Demonstrated advanced AWS (S3, Redshift, Athena) and Snowflake skills, optimizing SQL queries and ETL jobs for enhanced data management efficiency. Utilized Power BI for dynamic visualizations.

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

- Implemented Python-based optimizations in ETL pipelines, efficiently extracting and transforming diverse data sources (CSV, JSON, Excel) for MS SQL Server through SSIS, resulting in a 10+ hour weekly time-saving.
- Developed a Tableau dashboard for the finance company, analyzing 15+ KPIs/metrics. Utilized Python for backend data processing and JIRA for streamlined issue tracking.
- Led the creation of a predictive model for an energy company using Python libraries (Scikit-learn and Pandas), enhancing resource allocation and investment decision-making.
- Established efficient project documentation by integrating JIRA with Confluence, ensuring transparent tracking of database changes and maintaining a comprehensive project report.

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.
- Authored and distributed comprehensive solution keys for assignments, demonstrating leadership in fostering collaborative learning.
- Successfully completed multiple professor-assigned projects, showcasing strong project management skills and a commitment to excellence.

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

- Completed in-plant training at Hwashin Automotive, specializing in data analysis for Hyundai and Honda projects. Managed data-driven quality control for raw materials, body parts, and chassis inspection.
- Applied MINITAB for Process Capability Studies, reducing variation and implementing data-driven containment actions.
- Applied advanced data analysis techniques like Fishbone Diagrams and 8D methodology for troubleshooting and quality enhancement.
- Demonstrated a proactive approach to continuous improvement through data-driven decision-making. Played a key role in addressing warranty claims and ensuring new product quality through data analytics, contributing to a comprehensive understanding of automotive development and quality assurance.

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