

Peter Chisamba

Data Scientist and Business Analytics.

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Summary.

A passionate and data-driven AI-professional with a proven ability to apply and leverage algorithms to solve real-world business problems. Very proficient in data mining and retrieval of insights from data. Expertise in Generative AI, NLP, and usage of large language models. Skilled in Python, R, Java, SQL, and various machine learning frameworks. Proficient in data analysis, statistical methods, and data visualization, with a strong focus on AI ethics and explainable AI. confident that my skills and experience make me a valuable asset to any team looking to leverage the power of AI to drive business growth and success.

Education.

Master's degree: Data Science and Business Analytics | Aalen University, Germany | Grade: 1,7

Master's thesis: Raw Audio Data Processing Using Neuronal Networks | Grade: A+ (1,0)

Certifications: Certified Java Certified Professional.

Skills.

Technical Skills: Python, R, Java, SQL, GenAI, LLM, Machine Learning, Artificial Intelligence, Deep Learning, RPA, LLMs, AI & Analytics.

Analytical Skills: Data Analysis, Problem-Solving, Statistical Analysis, Critical Thinking, Data, Attention to Detail, Data Mining, Predictive Modeling, Data Cleaning, Preparation and Visualization.

Methodologies and Tools: Agile Methodologies (Scrum, Kanban), Version Control Systems (GIT), Collaboration software (JIRA, Confluence), cloud platform (AWS), Data Visualization Tools (Power BI, QlikView, Matplotlib), Python Libraries (Pandas, NumPy, and Scikit-learn), R Packages (ggplot2, dplyr, and caret), Machine Learning Frameworks (TensorFlow, Keras).

Main Areas of Expertise.

Generative AI (LLMs, Agents).	Software Engineering.	AI-Driven Automation (RPA).
Predictive Analysis (Time Series).	Demand Forecasting.	Natural Language Processing.
Recommendation Systems.	Business Intelligence-Dashboarding.	Product & Sales Analysis (KPIs).
Data Insights & Data Storytelling.	Data Modelling.	Explainable AI & ML-Solutions.

Key Achievements.

Demand Forecasting: Implemented an AI-powered demand forecasting model in the supply chain delivery process using the XGBoost algorithms to optimize replenishment at MZV thereby increasing efficiency by 40%.

Process Automation: Developed insights to maximize post-purchase operations by utilizing worldwide customer reporting line data from warranty claims and technical assistance decreasing error quota by 30%.

Academic Achievement: Achieved an A+ for my thesis on analysing audio sounds using neural networks to predict material wear and tear. This innovative approach could help RME Engineers maintain equipment efficiently, reducing the need for costly and unnecessary routine checks, such as those required for offshore oil drilling operations.

Professional Experience.

MZV Moderner Zeitschriften Vertrieb GmbH & Co. KG
Data Scientist in Marketing Services.

May, 2023 - Dec, 2023

- Replenishment Optimization to achieve market-oriented supply through multivariate and analytics-driven forecasting.
- Implemented the end-to-end RPA processes with UiPath and applied Python BeautifulSoup web scraping libraries to streamline data collection processes for sales and marketing analytics for 44 wholesalers and reduce processing time by 200%.

BMW AG Motorrad: „IQ intelligent engineer Management GmbH“.

Jan. 2022 - Jan. 2023

Project Coordinator, Senior Consultant Data Scientist (Automotive).

- Optimized After Sales operations by utilizing worldwide customer data from warranty claims and technical assistance.
- Created a reporting system to track the effectiveness of the KPI-TC implementation for motorcycles, as well as a system to monitor delivery blockage under warranty
- Analysed sensor-generated FASTA (operational data) and ISTA (diagnostic data) from motorcycles to track the cardan shaft's degradation and make accurate ad hoc determinations on warranty claims, therefore enhancing warranty analysis.

Altran Deutschland S.A.S. & Co. KG

Aug. 2018 - Nov. 2020

Project Coordinator, Senior Consultant Data Scientist (Automotive).

- Implemented Python scripts of the data import for the data pipeline ingests for data transfer from the NAS to the data centres for the purpose of autonomous driving projects at Magna and BMW, thereby increasing data transfer rate by 30%.

Personal Projects.

- **Marketing Analytics Project:** Implemented advanced techniques such as Customer Conversion, Segmentation, Regression Analysis, Time Series Analysis, Customer Lifetime Value, Churn Prediction, Sentiment Analysis, Conjoint Analysis, Multivariate Analysis, and Predictive Modelling.
- **Medical and Clinical Studies Analytics Project:** Applied Inferential Statistical Analysis, ANOVA, Chi-Square Test, Survival Analysis, Meta-Analysis, Bayesian Statistics, Cluster Analysis, Time-Series Analysis, and Intention-To-Treat (ITT) Analysis.
- **Material Wear Prediction:** Utilized Convolutional Neural Networks (CNN) to analyse audio signals for predicting material wear and tear.
- **Credit Default Forecasting:** Employed XGBoost and Random Forest algorithms to forecast credit defaults.
- **Recommendation System:** Developed a film recommendation system based on past user preferences.
- **Car Sales Prediction:** Predicted individual agent car sales using time series data and logistic regression.
- **Interactive Sales Dashboard:** Created a PowerBI dashboard to showcase interactive reports of simulated press product sales.

Additional Skills.

Pyspark, JavaScript, KNIME, AWS, Google Analytics, ARIMA, ANOVA, Multi-variate & Time Series Analysis, Data & Web Mining. Palantir Impact.