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Professional Summary

Dynamic data scientist with a strong foundation in machine learning, data analysis, and problem-solving. Eager to join world-class data science team to leverage data-driven insights. Passionate ML engineer with a solid background in developing and deploying models. Dedicated to staying updated with the latest advancements in AI, and ML technologies.

Skills

Technical Skills	Software Tools
<ul style="list-style-type: none">• Data pipelining• Data analysis.• Data wrangling.• Data modeling.• Data visualization.• Machine learning• Dash-board development	<ul style="list-style-type: none">• Python Advanced• R Intermediate• SQL Advanced• Excel Advanced and Power BI Intermediate.• Django• React JS• Node JS• Flask

Work Experience

Junior Data scientist – Commercial Bank of Ethiopia - Ethiopia (Addis Ababa) – 30-Dec-2023 - Present <ul style="list-style-type: none">• Applied different time series forecasting methods to anticipate product usage and assess its profitability.• Develop and deploy clustering and classification algorithm• Extract raw data from the CBE data warehouse and central database, conducting analysis to uncover trends,• offer recommendations, and forecast the future performance of digital banking products such as ATMs,POS systems, mobile banking, and CBE-Birr.
Lecturer and researcher – University of Gondar - Ethiopia (Gondar) – 22-Oct-2018 - 29-Dec-2023 <ul style="list-style-type: none">• Machine Learning & Data Mining: Instructed undergraduate students on core principles of predictive modeling, data processing, feature engineering, and algorithm evaluation using real-world datasets.• Business Analytics: Delivered comprehensive lectures on data-driven decision-making, statistical analysis, and business intelligence tools to enhance organizational performance.• Design and develop optimized proximity based Amharic information retrieval model in pythonParticipant of the research Chatbot based anxiety disorder treatment in python

Projects

Project Title

- **AI based Financial News Data Analysis**

This project focuses on the detailed analysis of a large corpus of financial news data to discover correlations between news sentiment and stock market movements.

- **AI based Pharmaceuticals Data Customer Behavior Analysis and Store Sales Prediction Using Machine Learning and Deep Learning**

This project explores customer purchasing behavior and predicts store sales using machine learning and deep learning. It involves data cleaning, exploratory analysis, and visualizations to identify patterns in promotions, holidays, and store openings. Sales predictions are made using regression models and LSTMs, with feature engineering and loss function selection to optimize accuracy. The trained models are serialized and deployed via a REST API (Django) for real-time predictions, enabling data-driven decision-making for store operations.

- **Amharic Named Entity Recognition (NER) for Ethiopian E-commerce Messages**

This project focuses on building a robust Named Entity Recognition (NER) system tailored for Amharic language text from Ethiopian e-commerce channels. The process involves collecting data from Telegram, preprocessing the raw text, labeling entities like products, prices, and locations in CoNLL format, and fine-tuning multilingual models such as XLM-Roberta and BERT-based variants. The system is further enhanced by model comparison and interpretability tools (SHAP and LIME) to ensure transparency and trust in predictions. The outcome is a high-performing NER model capable of accurately extracting key entities from Amharic e-commerce messages, providing valuable insights for businesses and researchers in the Ethiopian market.

- **Design and develop optimized proximity based Amharic information retrieval model**

Amharic language information retrieval by optimize use of statistical score (which is TF-IDF) and compactness of query words in a document rather than simply taking TF-IDF

- **Chatbot based anxiety disorder treatment**

Education

Master of Science in Data Science and Information Systems – Osiri University-USA– 01-Jan-2024– 08-Dec-2024

Master of Science in Information Systems –University of Gondar- Ethiopia – 01-Oct-2019 – 22-Jan-2021

Bachelor of Science in Information Systems –University of Gondar- Ethiopia – 22-Oct-2013 – 08-Jul-2017

Certificates

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- Data analysis and visualization with Power BI on coursera
 - Process data from dirty to clean using Excel and SQL on coursera
 - Data Visualization: Empowering Business with Effective Insights using Power BI and Tableau on TATA
 - Vertex Forecasting and Time Series Analysis Practice on coursera
 - Applied Data Science 16 Week 16 Project Lab by World Quant University