Dgebe Nicolas
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EDUCATION

McGill University Montreal, Canada
Bachelor of Arts, Major in Statistics, Minor in Biological Sciences, June 2023
Coursework: Probability and Statistics, Statistical Learning, Linear Regression and Multivariate Analysis, Statistical Computing with R, Applied Machine Learning with Python, Advanced Calculus, Foundations of Programming

EXPERIENCE

Gowling WLG Moscow, Russia
Data Entry Specialist Sept. 2021 —Sept.2023

- Developed and implemented data validation protocols for various legal documents, achieving a 99.5% accuracy rate, a key KPI ensuring data quality and integrity.
- Enhanced data retrieval efficiency by 20% through optimization of scanning and uploading procedures to cloud databases.
- Conducted comprehensive quality control checks, leading to a 30% improvement in database integrity.
- Utilized advanced Excel functions to extract and analyze data, providing actionable insights for business decision-making.

Global Affinity Montreal, Canada
Collections Agent May. 2019 —Aug.2019

- Devised data-driven personalized repayment plans, reducing collections receivables by 10%.
- Performed detailed financial data diagnostics, ensuring data integrity and supporting database monitoring
- maintaining data integrity and monitoring client databases.
- Successfully negotiated payment plans based on data insights, achieving a 60% success rate in debt collection.
- Recognized for exceptional data-driven client management skills.

FEATURED PROJECTS (more details at https://dgebenicolas.github.io/)

Predict Department-Wide Sales at Walmart with Advanced Regression Models

- Conducted comprehensive data preprocessing and exploratory data analysis, feature engineering on Walmart data.
- Built an ensemble Averaging model, XGBoost model, Light GBM model to predict weekly sales in Python.
- The fine-tuned XGBoost model achieved an RMSE of $2968.84, and R-squared value of 0.9830, reflecting 98.3% accuracy in sales trends prediction.

Fashion MNIST Image Classification: Implementing MLP and CNN Models

- Analyzed Fashion MNlST Images data using Multilayer Perceptron and Convolutional Neural Network models in Python.
- Compared performance using different architectures, activation functions, and L2 regularization.
- Achieved high accuracy of 91.2% with CNN and 88.1% with best performing MLP architecture.

Sentiment and Text Classification: IMDB Movie Reviews and News Group Dataset

- Implemented logistic and multi-class regression for sentiment analysis on IMDB reviews and newsgroup posts classification in Python
- The logistic regression model achieved an 0.8779 AUROC for the IMDB dataset and the multi-class regression achieved a 74.80% accuracy for the 20-news group dataset.

Medical Dataset Analysis: Application of K-Nearest Neighbors and Decision Trees

- Analyzed Hepatitis and Diabetic Retinopathy Debrecen datasets using KNN and Decision Tree models in Python.
- Optimized accuracy through hyperparameters and achieved 88.89% accuracy for KNN in Hepatitis dataset.

SKILLS

Programming: Python (TensorFlow, Pytorch, Keras), SQL, MATLAB
Technologies: Microsoft Excel, Docker, Google Cloud Platform, Terraform, Git, Linux
Visualization and Statistical Software: Tableau, Python (Matplotlib, Seaborn)
Machine Learning: Regressions, Random Forest, SVM, XGBoost, NLP (BERT, GPT) , Deep Learning
Languages: English, Russian, French, , Japanese