Dgebe Nicolas

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EDUCATION

McGill University Montreal, Canada

Bachelor of Arts, Major in Statistics, Minor in Biological Sciences; December 2022

Coursework: Probability and Statistics, Statistical Learning, Linear Regression and Multivariate Analysis, Statistical Computing with R, Applied Machine Learning with Python, Non-Parametric Statistics

EXPERIENCE

Gowling WLG Moscow, Russia

Data Entry Specialist Sept. 2020 – Sept.2021

- Inputted, processed, and validated data from various legal documents, including (DIP) financing documents and closed cases, ensuring a 99.5% accuracy rate.
- Conducted regular quality control checks on the database, identifying and resolving inconsistencies, leading to a 30% improvement in data integrity.
- Streamlined the process of scanning and uploading files to the company's cloud database, enhancing retrieval efficiency by 20%.
- Utilized Excel to pull relevant data for use in reports, supporting business decision-making by providing actionable insights.

Global Affinity Montreal, Canada

Collections Agent May. 2019 – Aug. 2019

- Devised personalized repayment plans for accountholders, reducing collections receivables by 10% within the first month.
- Conducted essential application diagnostics on client financial data, including periodically generating technical reports, maintaining data integrity and monitoring client databases.
- Contacted clients with past-due accounts, formulating payment plans and restructuring options, resulting in a 60% success rate in debt collection.
- Earned commendations for exceptional client management skills, reflecting an ability to understand and respond to individual client needs based on data insights.

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 ensembled Averaging model, XGBoost model, Light GBM model to predict weekly sales.
- 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 MNIST Images data using Multilayer Perceptron and Convolutional Neural Network models.
- 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 IMBD reviews and newsgroup posts classification.
- The logistic regression model achieved an 0.8779 AUROC for 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
- Optimized accuracy through hyperparameters and achieved 88.89% accuracy for KNN in Hepatitis dataset.

SKILLS

Programming: Python (NumPy, Pandas , Scikit-learn, TensorFlow), R, SQL, MATLAB

Visualization and Statistical Software: Tableau, Python (Matplotlib, Seaborn)

Machine Learning: Regressions, Random Forest, SVM, XGBoost, NLP (BERT, GPT) , Deep Learning