GIRLIE QUINDAO RAZON

Junior Data Scientist | ML – Developer | BI - Analyst

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OBJECTIVE

Motivated and detail-oriented Data Scientist / Analyst with a solid foundation in data analysis, visualization, and machine learning. Eager to apply and expand analytical skills to drive data-informed decision-making in a dynamic professional environment.

EDUCATION

Data Science | EC Utbildning **2023 - 2025**

The coursework covers programming (Python, R, SQL), statistics, machine learning (model building, evaluation), deep learning, data management, and data visualization (Matplotlib, Power BI). Capstone projects provide hands-on experience and essential skills for data analysis and predictive modeling.

Web Development | Campus Mölndal **2021 - 2022**

The coursework covers essential skills for building dynamic and responsive websites, including HTML and CSS for structuring and styling, JavaScript for interactivity, and front-end framework, React. It also includes back-end development with Node.js and Express, database management using MySQL and NoSQL, and version control with Git. Practical projects throughout the course ensure the application of knowledge in developing real-world web applications.

BSBA – Management | ABE International Business College **2002 – 2007**

The coursework covers organizational behavior, strategic management, leadership, human resource management, operations management, and business ethics. It focuses on decision-making, problem-solving, and effective communication, blending theoretical knowledge with practical application through case studies, projects, and internships.

SKILLS

- Programming: Python, R, SQL, SQLAlchemy
- Data Analysis: Cleaning, Exploration, Statistical Analysis
- Machine Learning: Supervised | Unsupervised Learning, Model Evaluation
- Tools and Libraries: Pandas, NumPy, Scikit-learn, TensorFlow, Keras
- Database Management: MySQL, NoSQL
- Data Visualization: Matplotlib, Seaborn, Power BI
- Version Control: Git, GitHub
- Anaconda: Jupyter Notebook, Spyder, Visual Studio Code

PROJECTS

Thesis – Predictive Modeling & App Development for Mental Health

TrichMind: Relapse Risk Prediction for Trichotillomania

- Developed a machine learning pipeline (Logistic Regression, Random Forest, XGBoost) to predict relapsed risk based on emotional and behavioral user-reported data.
- Collected and preprocessed survey and forum data; identified key triggers like stress, anxiety, and solitude.
- Built and deployed a Streamlit-based web/mobile prototype to deliver real-time risk feedback and personalized coping strategies.

LIA Internship – Power BI Data Analysis & Reporting

Advokatfirman Treschow & Partner

- Developed interactive Power BI dashboards to analyze case volume, lawyer workload, and revenue KPIs.
- Integrated legal case and activity data; implemented dynamic filters, parameters, and DAX-based bonus calculations.
- Delivered actionable insights for staffing and resource planning through predictive analysis and visual reporting.

Education Cost Forecasting (Sweden, 2025–2035) – Python & Machine Learning

- Built a robust forecasting pipeline using ensemble models (Linear, Random Forest, Gradient Boosting, Voting Regressor) and LSTM to predict birth rates and education costs.
- Integrated demographic and cost data from SCB into a structured SQLite database using pandas and sqlite3.
- Achieved high model performance **($R^2 > 0.95$)** with rigorous validation (RMSE, MAE, cross-validation).
- Deployed insights via an interactive Streamlit dashboard to support data-driven education budgeting.

Big Mac Data Pipeline – CSV to SQL with Python

- Developed a modular Python ETL pipeline to extract, transform, and load Big Mac index data from CSV to SQLite.
- Utilized **pandas** for data cleaning and **sqlite3** for database integration.
- Implemented structured logging and exception handling for robust execution.
- Built automated testing with **unittest** and scheduled execution via Windows Task Scheduler.
- Delivered a maintainable, well-documented codebase with clear module separation.

Face Expression, Age, and Gender Recognition Using Deep Learning

- Developed CNN models for face expression, age, and gender recognition.
- Utilized Python, TensorFlow, and Keras for data preprocessing, model training, and evaluation.
- Achieved accuracies of 77% (Expression), 95% (Gender), and MAE of 3.5080 (Age) with CNN models.

Predicting Volvo V60 Car Prices Using R Programming

- Developed linear regression models in R to forecast Volvo V60 prices.
- Incorporated predictor variables including Model Year, Mileage, Fuel Type, Gearbox, and Horsepower.
- The model accounted for 84.3% of the price variance, with respective RMSE values of 32,170.44 (validation) and 41,046.34 (test).
- Recognized the necessity for additional refinement owing to the Gearbox's marginal significance.

Handwritten Digit Recognition Using Machine Learning

- Developed a Streamlit app for digit recognition using ML models trained on the MNIST dataset.
- Achieved highest accuracy with SVM model at 97.64%, followed by Random Forest and KNN.

- Implemented custom image preprocessing and model fine-tuning to improve prediction accuracy.
- Enabled user-friendly data collection through image capture with web cameras or mobile devices.

Comprehensive Sales and Vendor Performance Analysis Using Power BI

- Developed interactive dashboards using Adventure Works Cycles, a relational database.
- Created a star or snowflake schema data model integrating vendor performance metrics: Total Orders, Total Revenue, Average Lead Time, Quality Score, and On-Time Delivery Rate.
- Visualized sales trends over time and identified top and bottom-performing products.
- Implemented advanced features like drill-down hierarchies, drill-through, conditional formatting, and custom tooltips.
- Created a user-friendly, multi-page report with a custom theme.

Exploring AdventureWorks 2022 Database Using Python and SQLAlchemy

- Employed Python with SQLAlchemy to extract and analyse data from AdventureWorks2022.
- Generated descriptive summaries and visualizations of key database attributes using Pandas and Matplotlib.
- Conducted statistical analysis, including confidence intervals, to derive meaningful insights.
- Provided actionable recommendations based on vendor performance and pricing data.

LANGUAGES

- English
- Swedish
- Tagalog
- Cebuano

REFERENCES

Upon request