HEINRICH RUDMAN

Math and Science Tutor

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SUMMARY

Final-year Bachelor of Computing student with strong foundations in programming, databases, and applied mathematics. Completed coursework in Machine Learning, Statistics, and Linear Programming with hands-on projects using optimization algorithms and data-driven solutions. Experienced in building APIs, desktop/web systems, and working on an AI Drone using VR. Seeking an internship or graduate role in AI/ML or software engineering, with a focus on applying statistical learning and algorithmic problem-solving to real-world challenges. Skilled in C#, Python, Java, JavaScript, MongoDB, and PostgreSQL.

EXPERIENCE

Math and Science Tutor
Master Math's

📅 2023 📍 South Africa

- Teaching Grade 10-12 learners in Mathematics and Science.
- Mentor and train new tutors.
- Strengthened skills in communication, leadership, and knowledge transfer.

Real Estate Agent
Mads Properties

📅 2021 - 2023 📍 South Africa

- Managed marketing campaigns, client communications, and scheduling; gained transferable skills in digital platforms, business operations, and customer service.

TECHNICAL SKILLS

Languages and Frameworks

C#	ASP.NET	Python	Java	Node.js	JavaScript

HTML	CSS	Swing

Databases

PostgreSQL	MongoDB	SQL Server

Software Engineering & Tools

Agile (Scrum, Kanban)	Object-Oriented Design	REST APIs

Servlets	Git	GitHub

AI & DATA SKILLS

Machine Learning Coursework Projects – Python / Statistics

- Implemented K-means clustering, decision trees, regression, logistic regression, and Naïve Bayes.
- Applied statistical methods for model evaluation (accuracy, precision, recall, F1-score).
- Explored supervised vs unsupervised learning on academic datasets.

LANGUAGES

Afrikaans
Native ●●●●●

English
Fluent ●●●●●

EDUCATION

Bachelor of Computing :
Belgium Campus ITversity

📅 01/2023 - 12/2025 📍 South Africa

- (- Present)
- Completing 1,000 workplace hours toward Honours qualification.
- Current weighted average: 80.5% with multiple distinctions.
- Key Modules:
- Programming: C#, Java.
- Web Development: HTML, CSS, Node.js, JSP/Servlets.
- Databases: PostgreSQL, MongoDB.
- AI & Data: Machine Learning, Statistics, Linear Programming, Mathematics.
- Software Engineering: Analysis & Design, Software Testing, User Experience Design, Project Management, Innovation & Leadership.

Projects :
Can be viewed on CV Website

- **Linear Programming Toolkit (C#):** Developed solvers for Simplex, Branch & Bound, Knapsack, and Sensitivity Analysis; emphasized optimization and algorithmic problem-solving.
- **Machine Learning Coursework (Python, Statistics):** Analyzed the mathematical foundations of K-means, Decision Trees, Logistic/Linear Regression, and Naïve Bayes; applied statistical methods to evaluate models.
- **Employee Management System (ASP.NET + SQL Server):** Designed a full-stack CRUD system with authentication, role management, and LINQ-based queries.
- **Wellness Management System (Java Swing + DerbyDB):** Created a desktop app with counselor and feedback panels; implemented MVC design and database integration.
- **Contact Manager (C# + JSON):** Built a CRUD application for managing contacts with JSON storage, validation, and LINQ querying.

Biomedical Engineering
University of South Africa (UNISA)

📅 2019 - 2020 📍 South Africa

- Completed modules in Biology, Chemistry, Human Anatomy, Nutrition, and Statistics

FIND ME ONLINE

LinkedIn
https://www.linkedin.com/in/heinrich-rudman-6aa257233/

Github
https://github.com/LiveInFaithlink

CV Website
https://liveinfaith.github.io/CV/index.html

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