Ognjen Raketic

Career Transitioning to Data Science & Quantitative Analysis | Experienced in Process Optimization & Financial Modeling | R, Python, SQL

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Skills

Data Science & Technical Proficiency

R, Python, SQL, dplyr, pandas, scikit-learn, caret, tidymodels, quantmod, keras, ggplot2, seaborn, plotlib, git, github, NLP, Linux

Quantitative & Finance Analysis

Time Series Analysis, Financial Modeling, Risk Management, Statistical Analysis, Hypothesis Testing, Econometrics, Quantitative Investing, Derivatives, Fixed Income, Credit Risk

Leadership & Strategic Acumen

Team Management, Mentoring, Team Empowerment, Knowledge Transfer, Cross-functional Collaboration, Training & Coaching, Data Storytelling, Presenting Insights, Stakeholder Engagement, Supplier Relationship Management, Agile Communication

Languages

English, German, Serbian

Education

School of Computing
Computer Science
8.5
March 2023 - Present
Master's Degree

Faculty of Technical Sciences
Industrial Engineering
9.2
October 2019- October 2020
Master's Degree

Summary

Highly analytical professional with a decade of experience in industrial engineering and two years as a Technical Director, complemented by a Master's in Computational Finance. Passionate about leveraging data to solve complex problems, I am actively transitioning into Data Science and Quantitative Analysis. Proficient in R and Python, with a strong foundation in process optimization, financial modeling, and data-driven decision-making, eager to apply my diverse expertise to impactful projects.

Projects

Robust Portfolios with Machine Learning Techniques **July - December 2025**
Master's Thesis

- Used R and Python to develop and evaluate machine learning models LSTM, XGBoost, GARCH-ML hybrids to forecast financial asset volatility or price movements

R, Machine Learning, Finance

Predictive Maintenance System for Manufacturing Line Optimization **October 2025 - Present**
Demo

- Developed and implemented a **machine learning model (R/Python)** to predict industrial equipment failures, resulting in **35% reduced downtime** and **20% increased system reliability** through optimized preventive maintenance strategies.

R, Python, Maintenance

Experience

Vital Vrbas **October 2023 - Present**
Technical Director for Maintenance, Energetics & Investments Vrbas

- Led process optimizations using Lean and root cause analysis tools, cutting maintenance times by 45%.
- Introduced digital dashboards (R) for monitoring KPIs.
- Applied data analysis (MTTR, MTBF) for decision making, experience now applied to infrastructure monitoring.