STEFANO ALBERGHINI

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Education

Alma Mater Studiorum – Università di Bologna   **Expected July 2026**
Master of Science in Data Science

Alma Mater Studiorum – Università di Bologna   **Sept 2021 - July 2024**
Bachelor of Science in Statistics, Finance and Insurance

- Final Grade: 110/110
- Thesis: Comparing Classification Trees and Neural Networks for Financial Fraud Forecasting

Work Experience

CRIF S.p.A   **Bologna, IT**
IT Business Analyst Intern   *Jan 2024 - July 2024*

- Executed SQL queries to analyze and address inefficiencies in data processing for Credit Bureau's bank providers, enhancing data accuracy and operational support
- Implemented a Python script to automate front-end testing, using the Selenium framework reducing manual processing time by 70% securing reliable and efficient testing processes
- Improved API testing by utilizing Postman for automated testing and conducting regression tests and sanity checks, ensuring all activities functioned correctly
- Drafted Software Requirement Specifications documents using Confluence and managed project tasks and progress with Jira, ensuring all stakeholders had a clear understanding of project scope and goals

Projects

Comparing Classification Trees and Neural Networks for Financial Fraud Forecasting - LINK

- Analyzed data with the R programming language, starting with exploratory data analysis to explore variable relationships and feature engineering with the 'dplyr' library
- Evaluated two statistical methods using 'rpart', 'rpart.plot', 'nnet', 'NeuralNetTools' libraries for classifying financial fraud: classification trees and neural networks
- Visualized variable distributions using the 'ggplot2' library to enhance data understanding and insights
- Identified the classification tree as the most effective method for accurate financial fraud classification

Skills

- **Data Analysis:** Proficiency in Excel, SQL, Python and R for data manipulation and analysis
- **Automation and Testing:** Skilled in Python automation with Selenium and API testing using Postman
- **Project Management and Documentation:** Experienced in using Confluence for documentation and Jira for project management
- **Languages:** English - Professional, Italian - Native