Gabriele Durante

Email : gabrieledurante01@gmail.com

LinkedIn, GitHub

Skills

- **Programming Languages**: Python, R, SQL
- **Programming Frameworks**: PyTorch, Keras, OpenCV, Huggingface, Pandas, NumPy, Matplotlib, Seaborn
- **Technologies**: Deep Learning, Transformers, Statistical Learning, Weights and Biases, Docker, Git
- **Languages**: Italian (Native), English (Full Professional Proficiency)

Experience

- **Streparava Holding**   Brescia, Italy
  Financial Data Analyst, Intern   *Nov 2022 - Jan 2023*
  - **Data Automation and Modeling**: Developed financial dashboards using Python, enabling real-time insights, and built predictive models to support financial decisions.

- **Copan Group**   Brescia, Italy
  Data Analyst, Intern   *Jun 2020 - Aug 2020*
  - **Data Analysis and Workflow Optimization**: Implemented clustering techniques to classify prototype performance data and streamlined preprocessing workflows to enhance data efficiency.

- **INAIL, National Institute for Work Insurance**   Brescia, Italy
  Data Scientist, Intern   *Jun 2019 - Jul 2019*
  - **Risk Analysis and Protocol Development**: Analyzed occupational safety data to identify high-risk scenarios and developed models to evaluate and improve safety protocols.

Projects

- **Feed Forward Neural Network Performance Optimization**: Optimized FFNNs for regression and classification, showing superior accuracy with Sigmoid activation for overfitting reduction. Adjusted Adam optimizer, batch size, and learning rate for robust generalization.
- **Industrial-Strength Audio Search Algorithm**: Developed a robust audio search engine in Python capable of identifying music in noisy environments, scanning over a million tracks with combinatorial hashing.
- **Regression Analysis and Resampling Methods**: Explored linear regression techniques (OLS, Ridge, Lasso) on synthetic and real datasets, using cross-validation and bootstrapping for performance and bias-variance analysis.
- **Dynamic Text Generation with Markov Chains**: Created a text generation algorithm using Markov Chains in Python, generating text sequences based on state-transition modeling.

Education

- **University of Oslo**   Norway
  MSc Computer Science and Statistics, Exchange Program   *August 2024*
  - **Relevant Courses**: Statistical Learning, Natural Language Processing, Applied Machine Learning and Data Analysis, Advanced Topics in Reinforcement Learning

- **University of Verona**   Italy
  MSc Data Science   *October 2023*
  - **Major Subjects**: Deep Learning, Algorithms and Data Structure, Time Series Analysis, Data Management, Statistical Modeling, Cybersecurity for Data Science, Text Mining

- **University of Brescia**   Italy
  BSc Banking and Finance   *September 2020*
  - **Major Subjects**: Mathematical Analysis, Linear Algebra, Probability, Financial Models, Econometrics, R for Database Analysis, Data Visualization