

Anabeth Radunz

Data Scientist

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SUMMARY

Data Scientist with over 8 years of experience in data analysis, machine learning, and statistical modeling. Adept at developing advanced predictive models and delivering data-driven solutions to complex problems. Demonstrated proficiency in Python (PyTorch, NumPy), R, and SQL, with a strong background in quantitative risk analysis and applied research. Proven track record in cross-functional collaboration and transitioning research from concept to real-world applications. Committed to leveraging statistical expertise to drive insights and strategic decision-making.

SKILLS

Proficient: Python (PyTorch, NumPy), Statistical Modeling, R, Data Visualization (Power BI, Excel), Quantitative Risk Analysis, Signal Processing, Applied Research

Intermediate: Machine Learning, SQL, SAS, MATLAB

Beginner: Git (Version Control), Algorithm Design, Snowflake, AWS, GCP

PROFESSIONAL EXPERIENCE

Data Scientist

Allianz, Rio de Janeiro, BR

03/2023 to Present

Core Responsibilities:

- Designed and implemented KPIs and monitoring dashboards to track key risk indicators, ensuring visibility and actionable insights for stakeholders.
- Developed machine learning models for risk assessment in the fleet insurance product, using Python to calculate technical pricing. These models contributed to the product exceeding performance targets, resulting in a 45% increase in sales.
- Collaborated with risk, product, and compliance teams to align analytical solutions with business objectives.

Key Technologies and Tools: Python, SQL, SAS, Power BI, Advanced Statistical Techniques.

Applied Researcher

Universidade Federal de Pernambuco, Recife, BR

03/2017 to 03/2023

Core Responsibilities:

- Developed and refined machine learning models in Python, enhancing accuracy and applicability across diverse research and business projects.
- Led research initiatives, employing advanced methodologies in PyTorch for comprehensive data analysis and model optimization, resulting in high-impact solutions.
- Developed low-complexity methods based on Principal Component Analysis (PCA) for image compression, resulting in high compression efficiency with minimal information loss.
- Designed and implemented efficient algorithms that reduced computational costs by over 85% for transforms used in image compression, significantly optimizing processing performance.
- Published 4 peer-reviewed papers in reputable academic journals and contributed to open-source projects, fostering innovation in statistical analysis and advanced modeling techniques.

- Collaborated with academic peers to apply statistical models in practical scenarios, bridging the gap between theory and real-world applications.

Key Technologies and Tools: Python, PyTorch, Machine Learning, Data Analysis, Research Methodologies, Model Optimization, Fast Algorithms, PCA, LaTeX

Temporary Research Assistant

Florida International University, Miami, USA

10/2021 to 06/2022

Core Responsibilities:

- Conducted research focusing on convolutional neural networks for signal classification, boosting model accuracy.
- Partnered with academic and technical teams to advance data-driven solutions, employing Python and MATLAB.
- Presented seminars to graduate students on LaTeX writing templates, focusing on best practices for academic formatting, thesis writing, and research paper preparation.

Key Technologies and Tools: Python, MATLAB, Neural Networks, Research Collaboration

EDUCATION

PhD in Statistics

Universidade Federal de Pernambuco, PE, Brazil

03/2019 to 03/2023

MSc in Statistics

Universidade Federal de Pernambuco, PE, Brazil

03/2017 to 03/2019

BSc in Statistics

Universidade Federal de Santa Maria, RS, Brazil

03/2012 to 12/2016

LANGUAGES

Portuguese: Native.

English: Advanced.