Maria Pinto

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Junior Data Scientist - MSc Mathematics - Power BI - Machine Learning Analyst

Summary

Detail-oriented Junior Data Scientist skilled in SQL, Python and Power BI. Experienced in data analysis, workforce reporting, and strategic decision-making. Excels in stakeholder collaboration, delivering actionable insights, and ensuring data accuracy for organizational planning and improvement.

Skills

– **Data Science Skills:** Python, Postgre SQL, Microsoft Excel(Pivot Tables, V-Lookups, XLOOKUP)
– **Data Visualization & Reporting:** Tableau, QGIS, Geospatial Mapping, Power BI, DAX , QGIS, API Integration
– **Data Skills:** Data Understanding, Data Processing, Data Visualization, Data Modeling, Statistical Techniques, Data Manipulation
– **Statistical & Machine Learning Techniques:** Random Forest, Gradient Boosting, Feature Engineering, Predictive Modeling
– **Technical Collaboration:** Cross-Functional Teamwork, Decision Making, Deployment Coordination, Problem solving

Work History

The Cameron Foundation (via Catchafire)   12/2024 to 01/2025
Flexible Tech Support Volunteer- Remote
– Integrated Google Maps API for address validation and geocoding, enhancing community service reach.
– Developed geospatial tools to streamline mapping workflows and improve boundary assessments.
– Provided deployment instructions, enabling easy implementation by non-technical teams.

Catalyse Developments   07/2024 to 11/2024
Data Scientist Intern - Hybrid
– Designed a PostgreSQL database with PostGIS to improve data accessibility and efficiency, creating 10+ derived columns.
– Conducted geospatial analysis of big data sets for 15 regions, identifying demographic trends that informed strategic campaigns.

Oasis Infobyte   06/2024 to 07/2024
Data Scientist Intern - Remote
– Enhanced project efficiency by 30% through large-scale data analysis and cross-functional collaboration.
– Established tracking mechanisms for 10+ analytics tasks, improving transparency and alignment across teams.

Mentorness Recruitment Services   04/2024 to 05/2024
Data Analyst Intern - Remote
– Built Tableau dashboards, optimizing stakeholder understanding of performance metrics.
– Collaborated on five data-driven initiatives, boosting decision-making and project outcomes.

The Sparks Foundation   03/2024 to 04/2024
Data Science and Business Analytics Intern - Remote
– Mastered a suite of new data science tools and methodologies within four weeks, showing technological adaptability, enhancing productivity by 30% over the project timeline through effective implementation in analysis tasks.
– Cultivated strong relationships with team members, establishing a cohesive and collaborative work environment that enhanced project communication, resulting in the successful completion of 95% of deliverables ahead of schedule.
– Established best practices for utilizing newly adopted analytic procedures among colleagues, fostering a collaborative environment where shared knowledge increased task completion rates by over 15%.

Bluebird Camden and Hampstead   07/2016 to Present
Senior Live-in Care Assistant
– Documented client progress and facilitated seamless care coordination, increasing efficiency by 30% through systematic data tracking and process improvement.
– Monitored and recorded glucose levels to ensure data accuracy and timely interventions in accordance with medical guidelines, demonstrating strong attention to detail.
– Developed and implemented tailored care plans based on client metrics and needs, resulting in a 20% increase in client autonomy and overall well-being..

Education

The Open University, U.K   09/2019 to 07/2024
Master in Mathematics - 2:1
Calculus of Variations and Advanced Calculus, Approximation Theory, Galois Theory, Nonlinear Ordinary Differential Equations, Advanced Mathematical Methods

Instituto Politecnico Guarda, Portugal
BSc Topographic Engineering
Algebra – Mathematics, Geographic Sciences, Computer Science, Construction and Urbanism

Certifications
– Machine Learning Specialization - Andrew Ng *(Coursera - 11/2024)*
– IBM Data Science Professional Certificate *(Issued by IBM Skills Network on Coursera - 10/2024)*
– Map Academy: get mapping quickly, with QGIS *(Udemy - 07/2024)*

Projects

Solar Energy Forecasting   10/2024
Jupyter Notebooks — Python
– Applied Gradient Boosting and Random Forest models to optimize solar energy prediction, improving RMSE by 30%.
– Conducted rigorous hyperparameter tuning and achieved a forecasting precision increase of 15%.

Liver Disease Prediction Analysis   10/2024
Jupyter Notebooks — Python
– Improved feature reliability and model accuracy by 30% through advanced data cleaning protocols.
– Built predictive models with AUC-ROC scores of 0.78, enabling early detection of liver disease.

Landslide Susceptibility Analysis   11/2024
Jupyter Notebooks — Python
– Identified critical topographic factors contributing to soil instability using geospatial analysis.
– Implemented cutting-edge methodologies centered on topographic feature analysis, achieving accurate identification of three critical factors contributing to vulnerability in slopes during intense rainfall events assessed.
– Created 3D visualizations for municipal planners, enhancing infrastructure safety assessments.

Customer Churn Prediction and Retention Insights   01/2025
Jupyter Notebooks — Python, Power BI Dashboard - DAX
– Developed an end-to-end machine learning pipeline, from data ingestion and preprocessing to advanced modeling, achieving 90% recall for churned customers and reducing bias through SMOTE.
– Integrated predictive analytics with business intelligence by deploying a REST API and building a Power BI dashboard for real-time churn insights and actionable retention strategies.
– Conducted feature engineering and hyperparameter tuning, improving model accuracy and enabling targeted customer retention plans, saving potential revenue losses.

Unmapped Kenya: Mapping Buildings and Roads - Nyeri (Town) Sub-County   12/2024
YouthMappers
– Contributed to mapping unmapped areas in Kenya, focusing on building and road geometries in Nyeri (Town) Sub-County.
– Verified AI-predicted data, ensuring proper alignment and classification of features to meet high-quality mapping standards.
– Utilized geospatial tools like RapiD and JOSM to analyze and edit geospatial data, enhancing accessibility and accuracy for community use.

Languages

– Portugues - Native
– English - Proficient
– French - Intermediate

Hobbies

Exploring literature on artificial intelligence and astrophysics, blending interests in data science and real-world problem-solving.

References

References available upon request.