João Pereira dos Santos

Business Intelligence Intern in Transportation & Supply Chain Inbound Cross-Dock Team (EU-IXD) @ Amazon

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Porto, Portugal



EXPERIENCE

Business Intelligence Intern

Amazon EU, SARL

@ amazon.com

Transportation & Supply Chain Inbound Cross-Dock Team EU-IXD

- Placement Impact Calculator & Algorithm (End to end algorithm and automation with AWS services: EC2 instances, SageMaker and Web Application with Elastic Beanstalk)
- New Metric Spread Bias (Semi-Automated Jupyter Notebook Code & Markdown paper with interactive .html python code preview and interactive Plotly graphs, Placement Impact bridge with Pearson Correlation Analysis and SQL script for use in production)
- Analysis on the IXD Optimization Model Hard Constraint & Impact on Placement (Semi-Automated Jupyter Notebook Code & Markdown paper with interactive .html python code preview and interactive Plotly graphs)
- Analysis on the EU S&OP & SC Data Science Team Simulated IXD **Optimization Model** (Front End Dash Web Application deployed on AWS Elastic Beanstalk based on Python: Plotly, Pandas and SciPy for Box-Cox Transformations and OLS Regression)
- Arc Bin Level Forecast (AWS SageMaker with Python: Pandas, Matplotlib, NumPy, Pmdarima and FBProphet, AWS RedShift and AWS QuickSight)
- Tote Utilization Dashboard (Data Pipeline between 2 AWS RedShift Clusters, Daily Maintenance of 6 Tables with SQL ETL Manager and AWS QuickSight)
- Centralized Fluid Loading Dashboard (SQL Extract Jobs and Microsoft Power BI)
- Case Breaking & Impact on Item Selection (SQL Extract Jobs and Statistical Analysis with Excel: Pearson Correlation Coefficient, P-Value and Linear Regression)

Data Analyst Trainee

Amkor Technology Portugal, SA

@ amkor.com

Physical Failure Analysis & Reliability Request Management Process Optimization

- Automated Job Prioritization Tool (SQL Extract Jobs and Excel: VBA, Power Query)
- Dashboard Prototype (Front End Web Application with Python: Dash and Statistical Analysis with Pandas, Statsmodels and Plotly)

Master Thesis Project

Amkor Technology Portugal, SA

∂ amkor.com

Qualitative and Quantitative Statistical Analysis in Copper Electroplating Baths

- Modeling of Electroplating Chemical Components and Total Organic **Contaminations Concentrations** (Excel and Minitab)
- Dashboard Prototype (Microsoft Power BI)

EDUCATION

MSc in Chemical Engineering -**Processes and Product**

Faculdade de Engenharia da Universidade do Porto

Sciences et Technologies: Mathématiques, Informatique, Sciences de la Matière et de l'Ingénieur

Université de Bordeaux

Classes Préparatoires aux Grandes Écoles, Mathématiques Supérieures: Physique, Chimie et Sciences de l'Ingénieur

Lycée Fabert

Baccalauréat Scientifique Lycée Français International de Porto

LANGUAGES

Portuguese	Native
French	Proficient
English	Proficient
Spanish	Advanced

VOLUNTEERING

Homeless Housing Rehabilitation

Just a Change

10/2018 - 02/2018

Sports Charity Event and **Fundraising** Liga Nacional Contra a Fome

12/2016

EXPERIENCE

Summer Research Intern

Continental ITA, SA

Antifoaming Agent Study for Process Optimization in DIP Content Tire Textile Reinforcement

PROJECTS

Winner of the Hack@Home III by Tech@Catolica A Second Wave Analysis of COVID-19

12/2020

Ø linkedin.com/company/tech-at-catolica/

Forecasting one week of COVID-19 cumulative confirmed cases with Gompertz, ARIMA, FBProphet, XGBoost and Neural Network models. Mean Absolute Percentage Error (MAPE) of 0.7%

Winner of the 2018 Academic Games of **Engineering by AEFEUP**

1 02/2018 - 04/2018

∂ aefeup.pt/age/

Designing a continuous hydrothermal liquefaction (HTL) biomass processing unit for Paralab, SA

CERTIFICATIONS & MOOC

AWS Certified Cloud Practitioner | Amazon Web Services

AWS Cloud and basic architectural principles; Value proposition; Key services; Basic security and compliance; Billing, account management, and pricing models; Basic/core characteristics of deploying and operating in the AWS Cloud. (Exam Score: 89.3%)

Interactive Python Dashboards with Plotly and Dash | **Udemy**

Bar Charts, Line Charts, Scatter Plots, Heat Maps, etc; Create Layouts with Plotly's Dash library; Dash for interactive components with Plotly; Connect multiple inputs and outputs with a dashboard; Live interactive graphs with clicks and hover overs; Live updating data for streaming information; Security with App Authorization; Deploying to the internet with services like Heroku. (9.5 Hours)

Data Analyst with SQL Server | DataCamp

Database Objects: Create and alter tables, views, modify constraints, DML triggers; Work With Data: Queries, sub-queries, data types, aggregate queries, manage XML data; Modify Data: Stored procedures; Combine datasets, Work with functions; Troubleshoot And Optimize, Implement error handling. (45 Hours)

Process Mining Expert | Celonis

Data Engineer Trainning: Technically connect and maintain Celonis processes; Analyst Trainning: Translate data into actionable business insights. Create target oriented analyses to transform your business; Business User Trainning: Simplify your daily work. Get intelligent recommendations to execute the right actions. (30 Hours)

The Data Science Course 2020: Complete Data Science **Bootcamp 365Carrers | Udemy**

Statistical analysis; NumPy; Pandas; Matplotlib; Seaborn; Tableau; Machine Learning with stats models and scikit-learn; Underfitting, overfitting, training, validation, k-fold cross validation, testing, hyperparameters tuning; Deep learning with TensorFlow. (29 Hours)

ADDITIONAL DETAILS



Data Science Enthusiast

joaopereiradsantos.com twitter.com/joao96santos/ kaggle.com/joaopereiradsantos/ github.com/joaopereiradsantos/

Participated in the 2020 EUREKAthon - Challenge Data for Zero Hunger

Data-driven competition that addresses societal issues associated with sustainable development goals. Develop concrete and creative solutions that contribute to maximize access by all people to sufficient food all year round.

Partner: Banco Alimentar Contra a Fome



3x Team Leader at the European BEST Engineering Competition Challenge -Team Design

Practical test consisting of the construction of a prototype, with limited materials and low cost, to solve a proposed problem



Team Leader at the **European BEST Engineering** Competition Challenge -Case Study

Analysis of a real-life problem using the information provided to develop hypothetical solutions without building any prototype

SPORTS



Padel Coach 2019 Course - Level I Approved by Federação Portuguesa de Padel and Instituto Português do Desporto e Juventude



Padel at Top-Padel Industrial Level II Competition

Participated on the 2018 and 2019 National University Championship



Tennis at Clube de Ténis do Porto Competitive Level