Victor Hugo Lisboa Coutinho

Software & Data Engineer | Management & BI

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Profile

Professional with a solid technical background in data manipulation, focused on process optimization and visual management of indicators. Combines Software Engineering experience with analytical skills to transform raw data into strategic dashboards and business intelligence. Experienced in integrating Python and BI tools for report automation, with a strong aptitude for leadership and teaching, facilitating the communication of data-driven insights to decision-makers.

Areas of Expertise

Business Intelligence & Power BI (DAX, Power Query) · Data Analysis (Pandas, Scikit-Learn) · Process Management & KPIs · Back-End Development (Python, FastAPI) · Relational Databases & SQL (Extraction & Modeling) · ETL Automation · Technical Mentoring & Leadership · Linux/OpenSUSE, AWS & Docker

Professional Experience

Escola Estadual Professor Jason de Morais   **Berilo, MG**
Professor - Technical Course in Systems Development   *03/2024 – Present*

- **KPI Management:** Planning and monitoring of educational KPIs (performance, attendance, retention rates), consolidating data for management reports.
- **Technical Leadership:** Guidance of software projects, supervising the full software development lifecycle (SDLC).
- **Results Analysis:** Creation of tracking dashboards to support pedagogical and methodological decision-making.

IFNMG   **Araçuaí, MG**
Teaching Assistant - Algorithms and Programming Techniques   *06/2023 – 10/2023*

- Support in structuring logical reasoning for complex problem-solving and data treatment.
- Mentoring students in error analysis, debugging, and algorithm optimization.

IFNMG   **Araçuaí, MG**
Data Science and Automation Researcher (R&D Fellow)   *03/2022 – 12/2022*

- Participation in an R&D project focused on automated data collection, processing, and visualization.
- Application of Data Science libraries and Computer Vision to generate compliance statistics.
- Technical documentation and data structuring for further analysis.

Education

Instituto Federal do Norte de Minas Gerais (IFNMG)   **Araçuaí, MG**
Technologist Degree in Systems Analysis and Development   *Completed in 10/2024*
Focus on Data Engineering, Databases, and Applied Research.

Projects

Predictive Data Analysis (Chess Analytics)
Tech: Python, Pandas, Scikit-Learn, Power BI Concepts
Data Science project focused on statistical analysis. Utilization of Python (Pandas) for data cleaning (ETL) and predictive modeling. The structured data in this project serves as a foundation for indicator visualization and identification of strategic patterns (Analytics).

Guidance Management Platform (PGO)
Tech: Python, SQL, FastAPI, Docker
Full Stack solution for process management optimization. Focus on database modeling (SQL) to ensure record integrity, enabling secure data extraction for tracking reports and productivity indicators.

VisionEPI - Smart Monitoring
Tech: Python, OpenCV, Pandas, Analytics
System capable of generating real-time safety indicators. Processes visual data to account for the usage of PPE (Personal Protective Equipment), transforming images into quantitative metrics ready for consumption in risk management dashboards.

Skills & Tools

- **BI & Advanced Excel:** Power BI (DAX, Power Query, Star Schema Modeling), Excel (Pivot Tables, VBA/Macros), and Google Looker Studio.

- **Process Management & Automation:** Process Mapping (BPMN with Bizagi/Lucidchart), Routine Automation (Power Automate), PDCA Cycle, and Agile Methodologies (Jira/Trello).

- **Data Engineering & Analytics:** Python (Pandas, NumPy, Scikit-Learn), Advanced SQL (Extraction & Views), Data Cleaning & Transformation.

- **Infrastructure & Tech:** JavaScript/TypeScript, Docker, AWS, Git, Linux/OpenSUSE.

Publications

Machine Learning Applied to PPE Usage Management   **Smart Laboratories**
Wi-Sci Proceedings - IFNMG   *11/2022*

Languages

- **Portuguese** [Native]

- **English** [Technical] - Proficient in reading technical documentation.