ELIE BROSSET

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Technical Skills

Languages: Python, Bash, JavaScript, R, SQL, Java, HTML/CSS
Developer Tools: Pandas, Transformers, Scikit-learn, PyTorch, FastAPI, Dash, Tensorflow, Flask, Keras
Technologies/Frameworks: GitHub, Docker, GitHub Actions, Google Cloud Platform, AWS, Talend, Linux, WordPress

Experience

Advanced Schema   10/2023 – Present
Data Engineer   *Paris, France*
- Automated the extraction and processing of HR data for 200k LVMH employees through the creation of fully automated Talend jobs, leading to a 90% reduction in the time spent on these tasks and an improved client's satisfaction.
- Spearheaded the development of a feature in the Python Flask API to dynamically generate Excel formulas, resulting in a substantial reduction of workload for LVMH's HR department.
- Developed a responsive JavaScript front-end performing asynchronous calls to a Flask back-end, enabling parallel generation and downloads of Excel files, and implemented a clean and intuitive user interface, resulting in a significant time-saving impact for LVMH's HR team, reducing download time by up to 50%.

Humanitics.ai   09/2022 – 09/2023
Machine Learning Engineer   *Paris, France*
- Engineered a Python library (75 GitHub stars) requesting OpenAI's API for dynamic plot generation from text.
- Extracted valuable insights from retail transaction data using machine learning algorithms, resulting in actionable recommendations for improved business outcomes.
- Deployed custom machine learning solutions for retail applications, ensuring alignment with client requirements.

Humanitics.ai   02/2022 – 08/2022
Data Science Intern   *Paris, France*
- Enhanced customer experience by reducing waiting times in Lacoste stores by 20%, utilizing RFID data and Python Dash for interactive dashboards and automated email reports.
- Improved traffic forecasting accuracy by 15% through meticulous model benchmarking and testing.
- Developed predictive models to optimize workload management in a retail store environment.

Learning Planet Institute   02/2021 – 07/2021
Data Science Research Intern   *Paris, France*
- Conducted in-depth analysis of 400k French Ph.D. theses, creating a map using RShiny to visualize research trends.
- Leveraged NLP algorithms to extract n-grams from thesis abstracts and perform thesis domain classification.

Education

CY Tech   09/2018 – 09/2023
MSc in Computer Science - Artificial Intelligence Specialization   *Cergy, France*
- Artificial Intelligence, Deep Learning, Natural Language Processing, Image Processing, Microservices, Cloud Computing

CY Cergy Paris Université   09/2018 – 09/2022
BSc in Data Science and Modeling   *Cergy, France*
- Machine Learning, Data Analysis, Statistics, Data Structures, Data Processing, Linear Algebra, Data Mining, Clustering

Projects

ChartGPT-Dash | *Python, Dash, LLMs, Plotly, Pandas, Docker, HuggingFace Spaces*   10/2023
- Designed web application featured on Plotly's home page winning 1st place cash-prize at Plotly's Dash-GPT challenge.
- Built with Dash and Plotly, it allows non-technical users to visualize their CSV files from plain text in a few seconds.

ChartGPT | *Python, LLMs, GitHub Actions, Markdown*   07/2023
- Developed a 75-stars Python library allowing data scientists to generate interactive visualizations from text requests by interfacing OpenAI's GPT-4 API with Pandas dataframes, decreasing development time by 30%.
- Built an automated CI/CD pipeline to package and publish the library on PyPI, reducing deployment time by 80%.

Text2ImageSearch | *Python, Transformers, CLIP, Docker*   05/2023
- Designed a Gradio web application with OpenAI's CLIP model to search images from text using vector embeddings.

FishWatch | *Python, Scikit-learn, Random Forest*   04/2022
- Trained Random Forest, Logistic Regression, and KNN models to predict illegal vessels encounters with 93% accuracy.