

# ELIE BROSSET – AI Software Developer

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## Technical Skills

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**Languages:** Python, JavaScript, React, Bash, SQL, PowerShell, R, Java, HTML, CSS, Swift

**Developer Tools:** FastAPI, Pandas, Transformers, Plotly, Scikit-learn, PyTorch, Flask, Dash, Tensorflow, Keras, NumPy

**Technologies/Frameworks:** GitHub, Docker, Azure, Kubernetes, Google Cloud Platform, AWS, Talend, Linux

## Experience

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### Advanced Schema

10/2023 – Present

*Data Engineer*

*Paris, France*

- Automated the extraction and processing of HR data for 200k LVMH employees through fully automated Talend jobs, reducing task time by 90% and improving client satisfaction.
- Developed a Python Flask API feature to dynamically generate Excel formulas, significantly reducing LVMH's HR department's workload.
- Created a responsive JavaScript front-end with asynchronous Flask back-end calls, enhancing user experience and reducing download time by 50%.

### Humanitics.ai

09/2022 – 09/2023

*Machine Learning Engineer*

*Paris, France*

- Engineered a Python library interfacing OpenAI's API for dynamic plot generation, achieving 80 stars on GitHub.
- Applied advanced machine learning algorithms to retail transaction data, yielding actionable insights and technical recommendations that improved business outcomes.
- Implemented tailored ML solutions for retail, enhancing predictive accuracy by 25%.

### Humanitics.ai

02/2022 – 08/2022

*Data Science Intern*

*Paris, France*

- Enhanced customer experience by reducing waiting times in Lacoste stores by 20%, using RFID data and Python Dash to create interactive dashboards and automated email reports.
- Improved traffic forecasting accuracy by 15% through rigorous model benchmarking and testing, resulting in more precise predictions.
- Optimized workload management in retail stores with predictive models, achieving a 25% improvement in operational efficiency.

### 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 domain classification.

## Education

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### CY Tech

09/2018 – 09/2023

*MSc in Computer Science - Artificial Intelligence Specialization*

*Paris, France*

- Specialized in Artificial Intelligence, Deep Learning, Natural Language Processing, and Cloud Computing.

### CY Cergy Paris Université

09/2018 – 09/2022

*BSc in Data Science and Modeling*

*Paris, France*

- Focused on Machine Learning, Data Analysis, Statistics, Data Structures, and Data Processing.

## Projects

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**ChartGPT-Dash** | 30 ★ | *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 seconds.

**ChartGPT** | 80 ★ | *Python, LLMs, GitHub Actions, Markdown*

07/2023

- Developed a 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, KNN, Logistic Regression*

04/2022

- Trained Random Forest, Logistic Regression, and KNN models to predict illegal vessels encounters with 93% accuracy.