AKSOY CEBRAIL

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Bron 69500
PORTFOLIO

Results-driven **Data Scientist** with over **2 years** of experience in machine learning and **a solid year** in **Data Engineering**, specializing in **AI** and automation solutions.

SKILLS

Programming Languages & Tools:

- Python (Pandas, NumPy, Scikit-Learn, TensorFlow)
- Apache Airflow
- SAS/SQL (MySQL, PostgreSQL)
- Linux: Docker/Podman
- Qlik/Power BI
- Big Data: PySpark
- Cloud: GCP, Azure

Data Scientist:

- Expertise in designing, training, and deploying Machine Learning models to solve business problems
- Proficient in Deep Learning techniques, including neural networks for complex data analysis.

Data Engineering:

- Skilled in designing and implementing SQL databases for scalable data storage and management.
- Experienced in developing APIs, web applications, and automating workflows using Apache Airflow to streamline processes and improve efficiency

WORK EXPERIENCE

DATA ENGINEER – EVS Professionnelle France **–** Dardilly 69570 April 2024 – Present

- Engineered a **web application** to automate and generate comprehensive billing reports for EVS partners, optimizing complex **data processing** and **API**-driven automation
- Designed and implemented a **PostgreSQL database** to centralize sales data from multiple sources, automate **data transformations**, and integrate with **Power BI** for real-time sales tracking and enhanced commercial performance.
- Collaborated with Nunshen to develop and operationalize a predictive **model forecasting** tea stock level, optimizing e-commerce sales strategy and production planning.
- Developed and automated alert modules using **Python** and **Apache Airflow**, reducing intervention response times and enhancing communication efficiency for Nespresso machine repair operations.

DATA SCIENTIST – University Gustave Eiffel **–** Bron 69500 Sept 2021 – Mars 2024

- Worked on the research project "**Reg-Trauma2**," aiming to leverage **hospital data** from Rhône and **Police data** to **estimate** the number of accidents and injuries on national roads.
- **Automated** the preparation (correction / adaptation of new modalities / imputation, etc.) of both data sources for statistical analysis.
- Conducted testing and development of diverse **Machine Learning models** to predict severity by leveraging the intersection of **two data sources**.
- Aggregated data and developed a **multinomial logit** model to extract correction coefficients for estimating the total number of national injuries.

MATHEMATICS TEACHER– Collège FAUBERT– Villefranche sur Saône 69400 Dec 2020 - Aug 2021

- Taught **mathematics** to middle school students (4th and 3rd grade levels) and prepared students for the “Brevet des collèges”.

PERSONAL PROJECTS

DEEP LEARNING IMAGE: AGE & GENDER PREDICTION **–** Personal Kaggle Project

- Used **Python** to develop a **Convolutional Neural Network (CNN)** architecture using **TensorFlow** to predict age and gender from a picture
- Preprocessed data using **ImageDataGenerator**: resizing, normalization, image transformations, etc.
- Implemented & **fine-tuned** a **pre-trained model** (**VGGFace + MTCNN**) to significantly enhance our model (**Transfer Learning**).
- Deployment of the model using **Flask** and **Cloud** (GCP), along with the development of a web page in **HTML/CSS** to create a clear interface.

MOVIE RECOMMANDATION SYSTEM **–** Personal Project

- Designed a movie **recommendation model** (Content-Based Filtering) using Python.
- Conducted data **preprocessing**, created new variables, and prepared data using **various Natural Language Processing (NLP) techniques**.
- Employed **Cosine Similarity** to recommend similar films based on a given movie.
- Deployed the movie recommendation system on the cloud utilizing a Linux virtual machine and Docker for containerization

EDUCATION

MASTER IN APPLIED MATHEMATICS IN DATA SCIENCE – Claude Bernard University Lyon 1 – LYON. 2020
BACHELOR'S DEGREE IN GENERAL AND APPLIED MATHEMATICS – Claude Bernard University Lyon 1 – LYON. 2018