Elbby Skermine AGWU

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SUMMARY

With solid experience at Solocal and Renault Digital, I specialize in applying Data Science to Digital Marketing. I build, evaluate, productionize, and optimize Machine Learning models to effectively enhance project performance using Google Cloud Platform. Additionally, I lead data science teams, fostering a collaborative and innovative environment.

EXPERIENCE

ML ENGINEER – ML OPS
Solocal   **October 2021 – September 2024, Paris, France**
· Built a robust MLOps framework around the search ranking algorithm, integrating comprehensive tests, rigorous data validation, and orchestration, to improve pipeline automation, reduce deployment times by 50%, and debugging time by 60 - 80%.
· Developed and iteratively refined Media Mix Modeling inside an ML Ops framework for client ads. Introduced Bayesian Inference with MCMC into the pipeline with LightweightMMM.
· Actively contributed to the Data Science team through detailed research article and book summaries, knowledge-sharing workshops organisation. Also drove the democratization of data science across the company, bringing data literacy and collaboration to 5 different departments.

DATA SCIENTIST – ML OPS
Renault Digital   **September 2019 – September 2021, Paris, France**
· Maintenance and optimisation of 2 industrialised Machine Learning models.
· Creation and industrialisation of end-to-end Machine Learning pipeline to predict the affinity of a customer to 1 of 7 different car models.
· Leveraging Google Analytics data to monthly retarget customers with high purchase potential.

COMPUTER VISION SCIENTIST
Renault Digital   **February 2019 – July 2019, Paris, France**
· Development of a Computer Vision application integrating a semantic segmentation model (Mask R-CNN).
· Data (2D pictures) collected from a 3D representation of the object (using Blender).
· 250 automatic annotations per object for training using Pycococreator.

PROJECTS

Goal Tracking Application
goal-tracker-bybyskers-projects.vercel.app/ · September 2024 –November 2024
· The v1 of an application to help a user define structure and track goals.
· Frontend using NextJs; Backend using FastAPI; Authentication and database on Firebase.
· Repository on Github; CI using CloudBuild; 2 Deployment methods: Vercel for frontend and Google CloudRun for backend.

EDUCATION

Msc IN INTELLIGENT SYSTEMS AND ROBOTICS
Université Pierre et Marie Curie · Paris, France · 2019

Engineering School
Minor in Mechatronics · EIGSI · La Rochelle, France · 2019

CERTIFICATIONS

Google Cloud Professional Machine Learning Engineer
Google Cloud · 2021

SKILLS

Programming: Python (Pandas, NumPy, Scikit-learn, TensorFlow, Keras) - SQL - Bash - C - C++ - NextJS & TailwindCSS

Machine Learning: Linear Models, Tree based models, Neural Networks, Convolutional Neural Networks , Clustering, LLM, Pipeline building and maintenance

Tools & Platforms: GCP (App Engine, Vertex AI, BigQuery, PubSub, Dataflow, Cloud Run) - Airflow - Gitlab - Github - Docker - Jupyter - Terraform (IaC) - Rest API (Flask - Fast API)

Soft Skills: Curiosity - Communication - Empathy - Autonomy - Ethics