Kevin Speyer - Machine Learning Engineer

Argentinian / German
Buenos Aires, Argentina
speyer.kevin@gmail.com

PROFESSIONAL EXPERIENCE

Sr. Machine Learning Engineer at **D24** 2022 - Present

- Deployed a webapp to redirect deposits using predictive timeseries ML models, decreasing manual intervension 80%.
- Developed a credit card fraud detection API using LightGBM, Flask, Docker and AWS, reducing chargebacks by 60%.
- Built a Life-Time Value model to help our partners drive retargeting campaigns and maximize their ROI, using DynamoDB and FasAPI.
- Designed an API to perform real-time aggregations of user's historical data on multiple dimensions, allowing to create various hard rules to prevent fraud.

Sr. Machine Learning Engineer (Lead) at **Jampp** 2020 - 2022

- In charge of the module that controls the offering price of the real-time bidder, increasing the spend from 92% to 98% of the budget using control theory.
- Developed a nonparametric A/B testing platform that enabled the whole company to correctly assess the outcome of experiments for non-gaussian data.
- Constructed a dashboard to meassure the key spend metrics and monitor efficency of services with Airflow and Superset.
- Implemented a Machine Learning model to target devices looking at their historical behavior (LTV), reducing cost per action up to 30%.

Machine Learning Engineer at **Cybertec Schönig & Schönig GmbH** 2018 - 2020

- Designed and implemented a high performance genetic algorithm to optimize the use of resources in the meat industry, increasing revenue 25%.
- Developed a revenue management web app for the airline industry using a feedback control loop algorithm and clustering which automated fare prices updates.
- Developed a theme specific text generator webapp retraing a LLM (GPT-2) fine tunned to texts scrapped from the web using Selenium, BeautifulSoup, Flask and Docker.
- Implemented a Reinforcement Learning (Q-learning) algorithm to optimize a logistics problem with OR-Tools as benchmark.

EDUCATION

PhD in Computational Physics 2014 - 2019
"Simulations of liquid flow confined by semiflexible polymer brushes", University of Buenos Aires, CNEA-CONICET

TECH STACK

Languages & Software: Python (numpy, scipy, pandas, matplotlib, scikit-learn, skopt, Keras, TensorFlow, Cython, Selenium, Flask, FastAPI), SQL, Vue.js

Infrastructure & Environment: Linux, git, AWS, Azure, Docker, Jenkins, Kubernetes, Bitbucket Pipes

LANGUAGES

Spanish, English, German, Portuguese