Alexander Fedotov

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https://alxfed.github.io

AI Dialogue Facilitator, Data Scientist,
As an AI Dialogue Facilitator I engage with AI on behalf of a client. I select the most suitable models, methods of interaction, and implement necessary software tools. 10+ years of experience building, implementing, and managing machine learning solutions from research to production. Expertise in Bayesian optimization, causal inference, distributed computing, and cloud platforms - AWS, Azure, GCP.
US Citizen.

Selected Achievements

- Developed statistical models and methods for analyzing correlated sequences of actions and events in mobile games.
- As a Chief Data Scientist lead a team of analysts collecting requirements from the game studios, which were operating under the umbrella of the parent company, their processing, planning and implementation of solutions.
- As a Research Lead led the development team and launched an experimentation platform at mobile games company, running Bayesian optimization of game features, based on an innovative experimentation framework.

Education

PhD in Physics and Mathematics
from the Academy of Sciences of the USSR, 1989

Physicist
Moscow State University (Moscow, Russia), 1979

Experience

Chief Data Scientist   May 2020 – Nov 2022
UAB Game Insight.

- Developed a mathematical foundation for the analysis of Correlated Sequences, implemented the code and models, tested them on standard data sets and achieved state of the art or higher results (trade secret of the company).
- Launched on the Company infrastructure the Ax.dev Experimentation Platform for Bayesian Optimization, (developed by Meta platforms (former facebook Inc.) and conducted numerous online, online-offline and multi-objective experiments with modifications of Company's games. The micro-service was built in a Docker container on FastAPI, APScheduler, asyncio and used S3, RedShift and Airflow as secondary sub-services.

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Experience (continued)

- Set up and used the AWS ML infrastructure of the Company (SageMaker Studio, SageMaker, Athena, Glue, PySpark applications) for Machine learning, now I'm migrating to Databricks.
- Implemented (Athena, SQL, Dask) multiple data extraction pipelines from a petabyte size Data Warehouse of the company to the data sets that were used by me for machine learning.

CEO, president, business analyst   1992 – 2017

Multiple startups

- Led engineering teams building pioneering fintech products like automated exchanges and digital payments platforms.

- Built businesses around these platforms and services, scaled them up, managed and sold them.

Jr. Research Associate - Research Associate

Lebedev Physics Institute of the Academy of Sciences, then General
Physics Institute.   1979 – 1992

- Conducted pioneering research in plasma physics and particle acceleration, leading to PhD in Physics and Mathematics from the Academy of Sciences of the USSR.
- Led efforts to automate lab experiments using pioneering computing technologies (DEC computers, CAMAC, then - Apple][, IBM PC).
- published papers on relativistic electron beams, plasma physics, instabilities and related topics.

Skills

- ChatGPT, OpenAI API, Claude.ai, Gemini, Bard

- HuggingFace

- PyTorch, TensorFlow

- Airflow, Kafka

- AWS, Azure, GCP

- Python, R

- SQL, Databricks, Spark

- Pola.rs, Arrow, Pandas 2.0

- SageMaker Studio

- Docker