

Serhii K.

Expert Lead Data Science Engineer /AI & ML Engineer

SUMMARY

- Highly experienced Head of Data Science with 12+ years of experience in creating and managing DS/ML teams in startups and corporate projects; - Proficient in AI, NLP, Adtech, Fintech, and CV; - Strong leadership skills and a client-oriented approach; - Skilled in Python, SQL, Prompt Engineering, HuggingFace, PyTorch, Scikit-learn, Pandas, LangChain, LlamaIndex, Spacy, GPT, Plotly, GCP, AWS, Azure, Postgre, MongoDB, BigQuery, and Vector DB; - Proactive in implementing innovative approaches for product features using Generative AI, LLM, and GPT; - Experienced in proposing innovative solutions for new business problems and managing teams; - Holds a PhD in Data Science and a Master's degree in Computer Science.

TECHNICAL SKILLS

Main Technical Skills	NLP (6 yr.), LLM
Programming Languages	C++, Python
AI & Machine Learning	AI, GPT, Hugging Face, LangChain, LlamaIndex, LLM, NLP (6 yr.), OpenAI, PyTorch, Scikit-learn, Spacy
.NET Platform	Azure
C++ Frameworks	Boost C++
Python Frameworks	FastAPI
Python Libraries and Tools	Pandas, PyTorch, Scikit-learn
Data Analysis and Visualization Technologies	Pandas, Power BI, Vector
Databases & Management Systems / ORM	Firestore, MongoDB, PostgreSQL, SQL, Vector DB
Cloud Platforms, Services & Computing	AWS, Azure, GCP
Google Cloud Platform	Google BigQuery
Industry Domain Experience	Adtech, Banking
SDK / API and Integrations	FastAPI
UI/UX/Wireframing	STL



Other Technical Skills	ChatGPT, ViennaCL
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WORK EXPERIENCE

Data Science Lead, NDA

Duration: 2021 - now

Responsibilities:

- Implemented a chatbot using GPT LLM and LangChain framework with Rasa framework (to handle user sessions and track chats).
- Chatbot maintains a wellness-style expert conversation with the user and simultaneously analyses what user types for important life events, depressive thoughts, traumas, relational problems, etc.
- Store detected data in the User Profile, and during conversation use the User Profile to answer, taking into account known data about the user.
- It is implemented as a part of ChatBot a RAG system that searches for relevant answers in the wellness database.
- Chatbot handles in a smart way context window size, removes non-important conversation messages from the start or middle, takes into account whether the user is paid or free uses different LLMs, and dynamically creates a prompt.

Technologies: Python, SQL, Prompt Engineering, HuggingFace, PyTorch, Scikit-learn, Pandas, LangChain, LlamaIndex, Spacy, GPT, GCP, AWS, Azure, Postgre, MongoDB, BigQuery, Vector DB, OpenAI GPT, Langchain, Fastapi, Firestore.

Data Science Lead, Model Performance Evaluation

Duration: 2017 - 2021

Summary:

- Managed and participated in team efforts on developing prediction models for CTR, Landing, View-Through, Visibility, and outcome models, such as Visits, Interacted, and Lifted.
- With prediction models achieved >50% cost decrease for running users ad campaigns
- Proposed an approach for back-testing and implemented a live-testing framework for evaluating model performance. Researched and developed a CPM optimization model, which decreased bidding costs by 20%.

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Data Scientist, Business Solutions

Duration: 2016 - 2017



Summary:

- Collaborated with engineering and product development teams;
- Proposed solutions and strategies to business challenges;
- Presented information using data visualization techniques.

Responsibilities: Collaborated with engineering and product development teams. Proposed solutions and strategies to business challenges. Presented information using data visualization techniques.

Technologies: Python, Power BI, Google Cloud.

Machine Learning Engineer & Team Lead, Forex Rates Analysis Engine

Duration: 2015 - 2016

Summary:

- Built engine for technical analysis of forex rates, using modern machine learning and signal processing approaches;
- Presented and constructed cascaded distributed SVM implementation on GPU which increased performance speed by orders of magnitude and removed the memory limitation of classic SVM;
- Implemented high-load multithreaded highly parallelized and low-level optimized client-server applications. Worked closely with remote front-end developers team, and took part in designing interface.

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Technologies: Python, STL C++11 concurrency, Boost, ViennaCL.

Machine Learning Engineer, Gesture Recognition Engine

Duration: 2011 - 2015

Summary:

- Successfully commercialized SmartTV and Android engine for gesture recognition;
- Used hardcore classic computer vision approaches for Feature Detection, Optical flow, and Object Tracking for gesture recognition;
- Porting and profiling native applications on Android, using Android NDK and JNI. Developing tools with Qt for collecting and processing big chunks of images and video data, and automated tools for gesture recognition engine testing.

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and processing big chunks of images and video data, and automated tools for gesture recognition engine testing.

Technologies: C++, OpenCV, Android NDK, JNI, Qt.

EDUCATION

Data Science PhD

Computer Science Masters Degree

2008 - 2013

CERTIFICATION

- Power BI
- Google Cloud

