



Victor Gueorguiev

SENIOR MACHINE LEARNING ENGINEER

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— PROFILE

I have diverse experience as a data scientist and ML engineer, utilizing my analytical, statistical, and programming skills to collect, analyze, and interpret large data sets, and to build end-to-end AI solutions.

I have deployed actionable data-driven solutions, implemented impactful AI features, and solved multiple difficult business challenges. I hold a master's degree in AI and computer science. My wide range of technical competencies include statistics, deep learning, Bayesian optimization, reinforcement learning, NLP & LLMs, software engineering best practices, and cloud infrastructure & Kubernetes.

— TECH STACK

Python Java TensorFlow

PyTorch RL

Bayesian Methods Langchain

LLMs GCP AWS

Terraform Azure Docker

Kubernetes Temporal

MySQL PostgreSQL

MongoDB Spark Redis

Neo4j Tableau Mode

Looker

— EDUCATION

Master of Science

KU Leuven, Belgium — Machine Learning and Artificial Intelligence

Bachelor of Science

UCT, Cape Town — Computer Science, Physics, and Mathematics

— WORK EXPERIENCE

● Senior ML Engineer

Living Homes

JANUARY 2025 – PRESENT

◆ Senior ML Engineer for the product's cognitive AI backend layer

- End-to-end feature development on multiple critical path features with product owners from user story and design to QA handover.
- Built an assortment of features such as: RL-based sleep environment optimization, statistics-driven sleep & health analysis, user voice ID recognition via deep learning, and LLM-driven natural language home automation and commands, multiple internal and external API integrations exposed as tools for the product's conversational AI agent.

● Senior Data Scientist & Team Lead

VMware Carbon Black

JUNE 2023 – SEPTEMBER 2024

◆ Team Lead for the data team, encompassing data visualization, data engineering, and data science.

- Led collaborations between data teams, engineering, customer success, and product management teams to plan and deliver successful data projects for EDR product cost optimization and customer analytics.

● Senior Data Scientist

VMware Carbon Black

SEP 2021 – JUNE 2023

◆ Senior Data Scientist specializing in the cybersecurity domain at Carbon Black.

- Built signature projects: cloud product cost monitoring and reduction in AWS, EDR ML-driven alerts, cost anomaly detection, LLMs for explainable alerting, and a customer churn model.
- ◆ Created cost monitoring tools, anomaly models, and governance methodologies to monitor Carbon Black's AWS & GCP cloud infrastructure costs at a granular level.

● Senior Data Scientist

Amplify Analytix LTD

JAN 2018 – AUG 2021

◆ Senior Data Scientist specializing in delivering analytics to sales and marketing teams.

- ◆ Product Dev Lead for the first marketable product at Amplify Analytix on optimizing SEO using reinforcement learning.

— LANGUAGES

English NATIVE PROFICIENCY

Bulgarian NATIVE PROFICIENCY

Dutch INTERMEDIATE

Danish INTERMEDIATE

● ML Research Mentor

UCT, Cape Town

JULY 2015 – DEC 2017

- ◆ **Machine Learning Research Mentor** for the Centre for Artificial Intelligence Research (CAIR) Lab internship program at the CSIR:
 - Led research on the feasibility of robotic 3D space understanding, and new time-series forecasting models for financial markets.

— PUBLICATIONS

Georguiev, V., & Kuttel, M. (2016, September). Implementation, Validation and Profiling of a Genetic Algorithm for Molecular Conformational Optimization. In Proceedings of the Annual Conference of the South African Institute of Computer Scientists and Information Technologists (p. 16). ACM.

— SELECTED PROJECTS

AI-based User Voice ID Recognition

AI-based user voice ID recognition for the Living Homes product.

- ◆ Built a voice ID recognition system that can identify users by their voice in near-real-time, and use that to personalize the user's experience.
- ◆ Achieved using fine-tuned Nvidia NeMo models.

Python

Azure

Deep Learning

AI

EDR ML-Driven & Explainable Alerting

Machine-learning alerting for endpoint detection and response (EDR), with LLM-based explanations to make alerts interpretable.

- ◆ Developed ML-driven alerting to improve detection signal in the EDR product.
- ◆ Applied LLMs to generate human-readable explanations for alerts.

Python

PyTorch

LLMs

Anomaly Detection

Bayesian Methods

SEO Optimization via Reinforcement Learning

Amplify Analytix's first marketable product, optimizing SEO using reinforcement learning.

- ◆ Led product development from concept toward a marketable offering.
- ◆ Designed the reinforcement-learning approach driving SEO optimization.

Python

Reinforcement Learning