Sergey Alexashenko

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Experience

Substack   2021 – 2022

Data Analyst

- Embedded in a product team to make data-driven decisions and improve product development.
- Defined and measured key metrics that tracked the performance of various teams and products.
- Built an LLM-powered spam detection system, as well as the foundation for future ML pipelines.
- Shipped data pipelines, data tests, internal data tools, BI dashboards, product features.

Truebill   2020 – 2021

Senior Data Scientist

- Architected a cutting-edge NLP classification pipeline powered by transformer models. Improved recall from 78% to 97% at no cost to precision. Led a multidisciplinary team to put it in production.
- Developed the first MLOps architecture/processes at the company.
- Supported the executive team in marketing spend decisions by productionalizing an LTV model.

Independent Research   2015 – 2020

- Independently studied Neuroscience full-time for 3 years focusing on dendritic computation.
- Wrote Cortical Circuitry, a book about the principles of the neocortex, and how they can be used to design better AI algorithms.
- Invested in startups such as Demonpore and TeselaGen. Advised the CEOs on fundraising & strategy.

Artherion Inc

De-risking credit through artificial intelligence   2014 – 2015

Founder & CEO

- Developed machine learning models that predicted credit risk for credit card customers.
- Communicated with high-level stakeholders, including bank CEOs and financial regulators.

CoFocus LLC

Helping employees focus in the workplace   2013 – 2014

Co-Founder & CTO

- Drove the design and implementation of software that boosted productivity by eliminating distractions during high-impact work. Shaped business strategy and originated critical insights.

Capital One   2013

Business Analyst

- Proposed and led the implementation of credit policy changes that were estimated to net the company over $20M. Improved access to credit for hundreds of thousands of customers.
- Discovered and led the fixing of a critical website vulnerability. Coordinated the efforts of analysts, web developers and legal/compliance teams to do so.

A Rank Ltd

A Rank Ltd is a proprietary trading company   2012 – 2013

Co-Founder & CTO
- Produced trading algorithms that consistently outperformed the market by double digits per year.
- Built an automatic trading system in Python and Java using APIs of a broker and Yahoo Finance.

Bank of Russia   2007 – 2008

Central Bank of the Russian Federation

Economist
- Created reports, models, and tools to improve the accuracy of exchange rates forecasts.

Education

Georgetown University, McDonough School of Business   2013

Bachelor of Science in Business Administration, Marketing Major
- Officer at Georgetown Hedge Fund Strategies Group and a member of the Kairos Society.

Skills & Certifications

- Software Engineering: Python, SQL, JavaScript/TypeScript, Java, React, Node.JS.
- Machine Learning: pandas, PyTorch, TensorFlow, Transformers, Scikit-learn, Prompt Engineering.
- Data: Data Engineering, DBT, Snowflake, BigQuery, Postgres, MySQL.
- Other: Statistics, Product Design, Leadership, Financial Analysis, Research, Deck Composition.
- Machine Learning with TensorFlow on Google Cloud Platform Specialization.
- Triplebyte certified Data Scientist.