ARTEM LEBEDEV

MS in Data Science PhD in Life Science



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Google Scholar

DATA SCIENCE

TensorFlow · Keras · Scikit-learn

PySpark · Hadoop MLlib R · tydyverse

Anova · bootstrap · hypothesis testing CNN-Random Forest- GLM - Time Series Git CLI - Conda CLI - LATEX

DEV AND DEVOPS

artem@indiechemistry.com

Python · Postgres SQL · MongoDB Linux · Amazon EC2 · GCloud Databricks · Flask · Gunicorn · NGNX Small animals · Cell cultures **VB.NET** · WinForms

LIFE SCIENCE

Oncology · Hypoxia · Inflammation Molecular Imaging · Pharmacology Wet chemistry · Radiolabeling Clinical trials · Method validation

PROJECTS

2021 - 2023 **Detection of bacterial colonies in Petri Dishes**

Feasibility study for LabLogic Inc.

Image classification to "sterile" and "contaninated" Petri Dishes, based on pre-trained neural networks: Efficient Net, VGG16, ResNet, Inception

OpenCV / CNN / YOLOv8 / Python

2023 -Sales analysis and forecasting present

McMaster Nuclear Reactor

Created a sales analysis web portal: a PostGreSQL database coupled to a Flask-based web app, running on Gunicorn webserver. The data allows for SARIMA time-series based sales forecasts.

Flask / SQL / Time series / PostGreSQL

2013 - 2019 Optical spectra analysis for Quality Control System Trace-Ability, Inc.

Developed algorithms for processing of optical signals from absorbance, luminescence and fluorescence measurements to extract quality control data suitable for FDA-compliant drug manufacturing. Wrote production code for automated peak finding on the chromatogramms, noise reduction, spectral normalization and outlier detection.

Signal processing / C#

2012 - 2013 UI and hardware for experimental drug manufacturing system **UCLA**

Build an prototype liquid-handling system aided by radiation and optical sesnors. Devloped a C#based software that allowed for asynchronous operations of the hardware, UI and data aqusition boards. The system was featured in two academic pubilcations.

Signal processing / WinForms / Async Programming

2012 - 2013 Sensor signal processing for automated chemistry modules Siemens Healthcare

Developed an algorithm for liquid transfers in a GMP-compliant automated drug manufacturing system. Processing a stream of data from various sensors, algoritm controlled liquid-handling hardware. The system was used in FDA-compliant manufacturing of radioapharmaceuticals.

EDUCATION

2021 - 2024 Master in Data Science

University of California Berkeley

Coureses: ML at scale, Applied ML, Statistics for data sceience, Data engenering, Time series and panel data, Research design, Data Sceince programming

2002 - 2005 PhD in Chemistry **Moscow State University**

Thesis: New aspects of Pd-catalyzed amination and its application in metallocene synthesis

EXPERIENCE

2022 - Present Commercial Manager McMaster Nuclear Reactor, Canada

Business developement and sales process for medical isotopes business

2015 - 2019 Chief Technology Officer Trace-Ability, Inc, Los Angeles, CA

Technical founder, oversaw development and productization of software-hardware complex for quality control of radiopharmaceuticals.

2013 - 2015 **Associate Project Sceintist**

University of Claifornia, Los Angeles

Development of small molecules for imaging of inflammation in tumor models.