Olha Kondratenko

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Machine Learning Engineer with a background in QA Engineering, recent MS in Computer Science graduate, enthusiastic about artificial intelligence, machine learning and software development.

Skills

- **ML / AI:** EDA, feature engineering, model training, tuning and testing, cnn, rnn, lstm, transformers, pipelines, computer vision
- **Programming languages**: Python, Java, JavaScript, SQL, HTML, CSS, XML
- **DBMS**: MySQL, MS SQL, postgreSQL
- **Tools and libraries:** GitHub, Postman, pandas, numpy, matplotlib, Jupyter notebook, tensorflow, pytorch, keras, sklearn, seaborn, nltk, vader, Docker, sqlalchemy, vue.js, PyVista, highdicom, Qt 5, D3, Jira
- **Frameworks:** Flask, unittest, Jest, Selenium webdriver, Cucumber
- **OS Environment:** MacOS, Windows, Linux

Work Experience

Software Engineer, Smith+Nephew   Dec 2022 - present

- Using Python for developing various R&D and production projects in medical field
- Creating and working with ML, DL models for 3D medical modelling and representation e.g. 3D projections on 2D images in 3D, computer vision
- Writing unit tests and desktop test automation
- Working on medical compliant documentation

Volunteer Experience

Researcher, University of San Francisco MAGICS lab   Sep 2021 - present

- Perform EDA, feature engineering using python, pandas, numpy
- Work with Google Earth Engine (gee) and weather / geological data
- Train deep learning models
- Write a scientific paper
- Visualise data with D3 and js

Additional Experience

Sys Admin Assistant, University of San Francisco   Jan 2022 - May 2022

- Installed and updated linux, windows, macOS software that unblocked students' access to 3 labs with the scientific software
- Tested and replaced broken hardware

Private Entrepreneur, Ukraine   Aug 2011 - Nov 2018

Worked as an IT Consultant in Quality Assurance on various short-term and long-term projects for European companies.

Education

University of San Francisco, San Francisco, CA
M.S. in Computer Science   Aug 2020 - May 2022
National University of "Kyiv-Mohyla Academy", Kyiv, Ukraine, WES verified
M.S. in Software Engineering   Sep 2011 - Jun 2012
B.S. in Computer Science   Sep 2006 - Jun 2010

Recent Projects

Data Visualization Project "Hurricanes in the Atlantic Ocean"   Jan 2022 - May 2022
CS560: Data Visualization, University of San Francisco

- Performed data cleaning, and data analysis using pandas, python
- Used JavaScript, D3, P5, HTML, CSS to create interactive visualisations of the data
- https://olga-kondr.github.io/dv-project.html, https://olga-kondr.github.io/dv-works.html

Sentiment Analysis of Communication in the Open-Source Projects   Aug 2021 - Jan 2022
CS690: Master's Project, University of San Francisco

- Built ready to deploy web application that takes a link to GitHub project and shows analysis of the communication using python, flask, jinja2, postgresql, sqlalchemy, Docker
- Implemented back-end with 2 services and a database
- Created 2 of the 5 ML models using pandas, numpy, sklearn, improved training scripts to ensure models' accuracy increase by 15% and decreased time of response by 40% with model storing
- https://github.com/vmware-labs/ml-conversational-analytic-tool/tree/main/ci_evaluator

Hurricane Trajectory Projection   Jan 2021 - May 2021
CS663: Machine Learning, University of San Francisco

- Used pandas, numpy, sklearn, matplotlib for EDA, feature engineering, worked with World Ocean Atlas: ncei.noaa.gov/products/world-ocean-atlas
- Set up tensorflow using CUDA on the GPU to train a mode that would predict trajectories of hurricanes, which decreased training speed by 70%
- Increased model's accuracy by 20%