Dragos Ilas

Data scientist with a math and programming background. MS in Math, worked as a software engineer for 2 years, data scientist for 2 years. Fast learner.

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EXPERIENCE

American Water, Camden, NJ — *Data Scientist / AI Researcher*
2018-2020

Developed and implemented Artificial Intelligence solutions in the water utility space

Created a help-desk solution for autonomous redirection of tickets based on user-submitted text using Natural Language Processing methods

Implemented risk scores for database log data using anomaly detection algorithms including isolation forests

Collected and cleaned data for an AWS analytics dashboard

NYC Data Science Academy, NY — *Data Science Fellow*
2018

Immersive 12-week bootcamp on data science and machine learning

Created a classifier to identify domestic violence from police reports, partnered with John Jay's National Network for Safe Communities

Scraped data from 100,000 Reddit posts, used NLP and sentiment analysis

Built a R Shiny/leaflet interactive dashboard exploring meteorite attributes by filters

SPAR Solutions, Atlanta, GA — *Software Engineer*
2014-2017

Designed and implemented customization solutions for clients in Customer Relations Management, using Salesforce/Apex, Java, SQL, HTML, JavaScript, both front-end and back-end

Graduate and Undergraduate Research
2011-2013

Developed a model for simulating growth of silicon nanowires based on the Kinetic Monte Carlo method; implemented a MATLAB code for application of this model; performed 2D & 3D simulations

Studied the secondary folding of RNA; wrote a program to calculate the edit distance between the tree representations of two RNA molecules

EDUCATION

University of Tennessee-Knoxville — *MS Math*
2013

Georgia Institute of Technology, Atlanta — *BS Applied Math*
2011

SKILLS

Python: numpy, scipy, pandas, sklearn, pytorch

R: dplyr, ggplot2, shiny, leaflet

Machine Learning:
Linear/Logistic Regression, Regularization, Random Forests, XGBoost, SVM, Clustering, PCA, Neural Networks, Convolutional NNs, Recurrent NNs, NLP

Big Data: AWS, Hadoop, Hive, Spark

SQL, Java, C++, Matlab

Scrapy, Selenium, Flask

Tools: Jupyter, Sagemaker, MySQL, Git, RStudio

AWARDS/ACTIVITIES

Highest score at Georgia Tech in Putnam Mathematical Competition, 2008

Participated in the US Mathematical Olympiad, 2003 and 2004

Interests: Technology Development, Artificial Intelligence, Astrodynamics

US CITIZEN