

DOGAN ASKAN

Manchester, NH | (919) 961-5715 | doganaskan@gmail.com | github.com/ddaskan | linkedin.com/in/doganaskan

TECHNICAL SKILLS

Languages: Python, JavaScript, HTML/CSS, R, SQL.

Python Packages: SciPy, pandas, NumPy, NLTK, scikit-learn, TensorFlow, Keras, PyTorch, Prophet, XGBoost, Sphinx, and more.

Other: UNIX Environment, Django, Flask, REST API Design, R Shiny, MS Azure, AWS, Computer Vision, SLAM, App Design, Bayesian statistics.

PROJECTS

TrendyPy: A Python Package for DTW based Time Series Clustering. github.com/ddaskan/trendvpy

MLQA: A Python Package to perform QA on data flows for Machine Learning. github.com/ddaskan/mlqa

Lyrics-Gen: Artificial intelligence generates heavy metal lyrics for you. lyrics-gen.com

WORK EXPERIENCE

Director, Predictive Modeling, Southern New Hampshire University, NH *August 2018 - Present*

- Design and develop machine learning software to uncover opportunities that boost organizational success such as better operational planning with more accurate enrollment forecasting or improved student success with predictive models.
- Reshape forecasting by designing Forecast2.0 framework coded in Python/MSSQL to provide a scalable, maintainable, error-free, and accurate environment to the team. This helps team members to focus on new developments more rather than debugging or maintaining the existing.
- Design and develop a web app using Python Flask to centralize forecasting/predictive models, tools and outcome. This makes non-technical employees and businesses interact, understand and utilize the forecasting products, outputs and more with the benefit of +90% reduction in time spent for operational tasks.
- Design and develop interfaces (e.g. API, UI) for data science products to be used by reporting and business teams. This enables an efficient machine learning model deployment cycle followed by fair model performance monitoring.
- Lead cloud strategy for data science products in MS Azure.
- Mentor team members and keep them up-to-date with advances in the data science world.

Data Science Manager, Market Resource Partners, PA *December 2017 – August 2018*

- Developed process improvements, analytical frameworks, shared expertise with others, and continually strived to improve overall contributions to the department, evaluate and modify statistical methodologies, techniques and processes.
- Hired, mentored and ensured members of the team are knowledgeable about the latest trends and capabilities as they retail to AI and similar technologies.
- Designed creative approaches to uncover the biggest opportunities for cost and time savings.
- Defined and drove the analytics strategy and modeling approaches.
- Built business cases and translate findings into practical business implications.
- Worked closely with overseas developers and other data scientists with Agile Development concepts.

Data Scientist, Market Resource Partners, PA *October 2016 – December 2017*

- Designed and developed a record linkage algorithm using R for corporate clients by sourcing data from internal and external databases, and web scraping.
- Designed and populated the relational database for account marketing by using the aforementioned algorithm.
- Designed and developed the internal CRM tool in Python/R for operational teams to utilize data science products.
- Designed and implemented various imputation models for missing firmographic data.
- Performed Ad-hoc statistical data analyses.

Mentor, Udacity*March 2017 – August 2017*

- Assisted Self-Driving Car Engineer Nanodegree students work on their term projects such as Traffic Sign Classifier, Semantic Segmentation, Behavioural Cloning, and Extended Kalman Filter.
- Coached mentees in areas regarding Machine Learning, Deep Learning, TensorFlow, Python.
- Provided career guidance to Self-Driving Car Engineer Nanodegree students.

Data Engineer, PlantProf LLC., NY*November 2015 – October 2016*

- Successfully designed and managed both relational and analytical MySQL database of the product's web application created for plant owners.
- Developed the web application in PHP and designed the back-end tools to perform ETL processes, APIs integration and image processing in Python.
- Developed data visualizations in Tableau and D3.js in the management dashboard in the web application.
- Conducted data quality assurance activities and data analysis in R.

Software Developer, Clarkson University, NY*September 2015 – August 2016*

- Designed and developed a software for real-time anomaly detection by implementing machine learning techniques using Python for Smart-Housing Project aims to reduce unnecessary water usage by controlling usage behaviors. It reduced water consumption by 6% where in use.
- Successfully reduced data transferring time by more than 50% for MySQL server migration sub-project.

EDUCATION

- Clarkson University, M.Sc. Data Analytics, **GPA 3.94/4.00**
- Istanbul Technical University (ITU), B.Sc. Mechanical Engineering

PROFESSIONAL DEVELOPMENT

- Udacity, Deep Learning Nanodegree, 2017
- Udacity, Data Analyst Nanodegree, 2016
- Udacity, "A/B Testing", "Design of Computer Programs", "Designing RESTful APIs", "Object-Oriented JavaScript" and more.
- Coursera, "Machine Learning", "Hadoop Platform and Application Framework", "R Programming", "Automata".

PUBLICATION

- A. Page, S. Hijazi, D. Askan, B. Kantarci, T. Soyata, "Research Directions in Cloud-Based Decision Support Systems for Health Monitoring Using Internet-of-Things Driven Data Acquisition", *International Journal of Services Computing*, 2015, [link](#)