

# DOGAN ASKAN

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## SUMMARY

Continuous and life-long learner with M.Sc. degree in Data Analytics. Coopareate, start-up and academic experience in machine learning, database design, data analysis, statistical modelling and app development with total 7+ years work experience.

## TECHNICAL SKILLS

**Languages:** Python\*, R\*, MATLAB, PHP, JavaScript, HTML\*, Q/kdb+, Swift.

**Python Packages:** SciPy, pandas\*, NumPy\*, NLTK, scikit-learn\*, TensorFlow, XGBoost, and more.

**Database/Querying:** ETL\*, SQL\*, MySQL, MS SQL Server, SQLite, MongoDB, Hadoop Platform, Hive, Pig.

**Other:** Tableau\*, MicroStrategy, SPSS, UNIX Environment, Django, Flask\*, RESTful API Design\*, R Shiny\*.

*\*denotes advanced skill level*

## PROJECTS

**Lyrics-Gen** [link](#) : [TensorFlow, Flask] Artificial intelligence generates lyrics for you.

**TranStats Dataset Analysis** [link](#) : [Tableau] Analysis of domestic flights in U.S. in 2013.

**Wine Quality Exploration** [link](#) : [R] Data analysis on the effects of white wine features on the quality.

**Cell Tracking Analysis** [link](#) : [SPSS] K-Means clustering analysis for cancer cell migration.

**Taxi Tips vs. Weather** [link](#) : [Python, APIs, Tableau] Analyzed NYC taxi tips depending on the weather.

**Who's Using Instagram the Most?** [link](#) : [Python, Tableau, R] Madison Square Garden audiences' comparison.

And more on [GitHub](#), [Tableau Public](#), [RPubs](#)

## WORK EXPERIENCE

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

- Develop data-driven forecasting models utilizing re-usable processes and methodologies for delivery results in a structured fashion
- Leverage advanced analytics to build accurate projections and develop robust strategies out of these analyses to drive impact in to business performance
- Design rich data visualizations to communicate complex ideas to business partners and leadership
- Leverage story-telling skills to deliver insights that are clear, concise and actionable
- Enable collaboration efforts between analytics team and business units cross-functionally to drive common goal achievement and meet organizational objectives

**Manager, Analytics & Data Management, Market Resource Partners, PA** *December 2017 – August 2018*

- Present findings and share insights with multiple business leaders throughout the organization
- Develop process improvements, analytical frameworks, share expertise with others, and continually strive to improve overall contributions to the department, evaluate and modify statistical methodologies, techniques and processes.
- Ensure successful project delivery and execution within project teams
- Hire, Mentor and ensure members of the team are knowledgeable about the latest trends and capabilities as they retail to AI and similar technologies
- Partner with others to understand business challenges
- Design creative approaches to uncover the biggest opportunities for cost and time savings
- Define and drive the analytics strategy and modeling approaches
- Build business cases and translate findings into practical business implications
- Work closely with overseas developers and other data scientists with Agile Development concepts

**Data Scientist, Market Resource Partners, PA**

*October 2016 – December 2017*

- Worked on all aspects of creating predictive intelligence including collecting requirements, establish analytics work plan, data exploration, cleansing, and preparation, identifying features, selecting algorithms, building and testing models, iteratively improving solutions
- Designed and implemented various machine learning models and applications.
- Designed and populated the relational account marketing database.

- Developed record linkage algorithm for corporate clients by sourcing data from internal and external databases, API and web scraping.
- Developed web apps and design API's for internal usage.
- 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 Analyst & Engineer, PlantProf LLC., NY**

*November 2015 – October 2016*

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

**Software Developer, Clarkson University, NY**

*September 2015 – August 2016*

- Designed and developed a software for real-time anomaly detection by implementing machine learning techniques in 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 server migration sub-project.
- Provided data analytic support to the project team formed by 7 Professors.

**International Area Sales Manager, Bosch, Istanbul**

*May 2011 – July 2015*

- Awarded 8 international projects in Middle East and Caucasus for Air Conditioning and Solar Energy System.
- Optimized time management of sales team by increasing time spent with customer by 15% by implementing regression analysis on sales activities region by region.
- Established the development of foreign markets and product portfolio by introducing innovative and new products to markets, impacting business growth by distributor acquisition activities, 40% increase in Lebanon market share for related product groups.
- Conducted marketing campaigns, seminars and sales trainings for each country and product segment to attain sustainable customer loyalty and satisfaction, 15% increase in customer wallet share on average.

**EDUCATION**

- Udacity, Deep Learning Nanodegree, 2017
- Udacity, Data Analyst Nanodegree, 2016
- Clarkson University, M.Sc. Data Analytics, 2016, **GPA 3.94/4.00**
- 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".
- Istanbul Technical University (ITU), B.Sc. Mechanical Engineering, 2009

**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](#)