

## **SKILLS**

Programming Languages: **SQL, Python**

Libraries and Databases: **Numpy, Pandas, Scikit-learn, Microsoft SQL Server**

Visualization: **Tableau, Jupyter notebook, Excel for Data Analysis**

Other: **Git/Github, Descriptive Statistics, Feature Extraction, Feature Engineering**

## **PROJECTS**

### **Predicting Boston Housing Prices** [goo.gl/9wqjye](https://goo.gl/9wqjye)

- Built a model to predict the value of a given house in the Boston real estate market
- Use various statistical analysis tools such as Cross Validation, Learning Curves etc.
- Identified the best price that a client can sell their house utilizing statistical methods

### **Finding donors for CharityML** [goo.gl/2n7QCb](https://goo.gl/2n7QCb)

- Investigated factors that affect the likelihood of charity donations being made based on real census data with around 50,000 records
- Developed a naive classifier to compare testing results to; trained and tested several supervised machine learning models on preprocessed census data to predict the likelihood of donations
- Selected the best model based on accuracy, a modified F-scoring metric, and algorithm efficiency

### **Creating Customer Segments** [goo.gl/kaWsgN](https://goo.gl/kaWsgN)

- Revived unstructured data to understand the patterns and natural categories that the data fits into
- Used multiple algorithms, empirically and theoretically compared and contrasted their results
- Made predictions about natural categories of multiple types in a dataset, then checked these predictions against the result of an unsupervised analysis

## **PROFESSIONAL EXPERIENCE**

### **Coolsis Technologies, Microsoft SQL Report Developer, Dallas, TX / Irvine, CA** *Oct. 2015 - current*

- Write complex SQL queries, stored procedures, views and SQL joins to fit reporting needs
- Analyze data and utilize useful visualizations using SQL Server Reporting Services (SSRS)
- Collaborate with customers for requirement gathering and problem-solving
- Build and implement approximately 20 new reports per year used by thousands of students, parents and teachers

### **Sidre Education, Math Instructor, Trabzon, Turkey**

*Aug. 2013 - July 2015*

- Taught advanced mathematics to students 14-18 years
- Math core competencies taught: Advanced Mathematics, Probability, Calculus, Algebra, Trigonometry, Statistics
- Collected and analyzed student performance data to develop future instruction
- Visited 50-60 students' homes each semester to improve student-parent relations, discuss academic goals and advise strategies for success

## **EDUCATION**

### **Machine Learning Engineer Nanodegree, Udacity**

*2018*

- Apply predictive models to massive datasets using Python, scikit-learn, TensorFlow and Deep Learning

### **Data Foundations Nanodegree, Udacity**

*2017*

- Manipulate, analyze and visualize data with Excel, SQL and Tableau

### **M.S. Management Information Systems, Zirve University**

*2015*

### **B.S. Mathematics, Dumlupinar University**

*2010*