



# VASILIIY MELKOZEROV

DATA SCIENTIST

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I have come to understand how ideas become data and data become plans. My collected skills have culminated to understand various types of problems, dealing with business to business and people to people. I value my creativity as my strongest trait. I have always strived to understand everything and everyone on a deeper level.

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## TECHNICAL SKILLS

Python - SQL - Tableau - Matplotlib - Pandas - NumPy - Spark - Git - Applied Statistics - Machine Learning - Natural Language Processing - Data Storytelling - Excel - Access

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## PROJECTS

### **Magic Trick**

**Aug 2022**

#### Clustering and Random Forest Regression

The goal of the project is to predict Magic The Gathering card prices based on other cards that share similar characteristics. This will allow the publisher, Wizards of the Coast, to ensure that their newest card publications are optimally priced for all levels in the marketplace. 52% of the predictions came within 10 cents of the actual value.

### **Pokerface**

**Jul 2022**

#### Natural Language Processing

The purpose and goal of the project was to be able to predict programming languages based off of words used in project "readme" files. The corpus was formed from the collection of texts from Github repositories that come up in findings when looking for the word "poker". After cleaning and exploring the data we had one machine learning model that will predict the programming language with 43% accuracy.

### **Fixing Zillow Error**

**Jun 2022**

#### Classification Modeling

The project goal for this was to find ways to improve Zillow's house pricing estimates. Through exploration most of the errors were due to a lagging algorithm that wouldn't adjust quickly enough to new market rates, usually missing under the mark. I had used a clustering model to find categories of where these errors occurred the most.

## **Predicting Customer Churn**

**May 2022**

### Regression Modeling

The project focus was to find driving features to predict customer churn. Using a SQL query through python and the pandas library for tools on exploration. I had found the top 5 features and fed them into a classification model to predict churn with ~75% accuracy. The single largest feature to indicate churn was fiber use and the highest rate of churn happens in the first 3 months. The business recommendation is to offer a 3 month reduced rate to keep customers past that point.

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## **EDUCATION**

### **Codeup, Certificate of Completion**

**Apr – Aug 2022**

Fully-immersive, project-based 20-week career accelerator that provides 670+ hours of instruction in applied data science. Students develop expertise across the full data science pipeline (planning, acquisition, preparation, exploration, modeling, delivery), and become comfortable working with data to deliver actionable insights to diverse stakeholders.

### **San Antonio College, Associates of Computer Science**

**Sep 2022 – Current**

Computer Science prepares students for entry-level positions as software developers. The program instills students with fundamental concepts and provides them with hands-on experience developing software applications. Students will be able to obtain the knowledge and skills necessary for success in the computer industry. Computer scientists use technology to solve problems. They write software to make computers do new things or accomplish tasks more efficiently. They create applications for mobile devices, develop websites, and program software.

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## **WORK EXPERIENCE**

### **Electrical Apprentice**

**Sep 2021 – Mar 2022**

Mr. W Fireworks – Somerset, TX

Built out firework stands across Texas according to fire code. While on location I pragmatically looked out for additional installations needed and practiced self sufficiency. This included installing lights, air conditioning, load centers, and outlets.

### **Team Lead Installer**

**Aug 2019 – Sep 2021**

Wittigs Office Interiors – San Antonio, TX

I had delivered and installed office furniture according to specification as well as making adjustments based off of customer needs. In being recognized for my work and leadership I had been promoted from laborer to lead installer in 6 months. This came to me leading a project for the Port of Corpus Christi that had over half a million dollars worth of equipment.

### **Airman, Damage Control Department**

**Sep 2015 – Dec 2018**

United States Navy – Bremerton, WA

I performed routine maintenance and inspections for emergency fire fighting equipment across all of the Air Department onboard CVN-74 John C. Stennis. This responsibility grew to also become the lead role in the department in charge of ventilation equipment. From this I had trained fellow airman in the department on how to perform these checks.