

# Selim Shaalan

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## EDUCATION

<b>Columbia University</b> <i>M.S. in Data Science</i>	New York, NY Dec 2024
<b>University of California San Diego</b> <i>B.S. in Math-Economics, Minor in Data Science, GPA: 3.92/4</i>	San Diego, CA Jun 2023
<ul style="list-style-type: none"><li>Relevant Courses: Practice of Data Science, Supervised Machine Learning, Data Structures and Algorithms</li><li>Honors: Provost honors x10, Cum laude</li></ul>	

## WORK EXPERIENCE

<b>University of California San Diego</b> <i>Data Science tutor</i>	San Diego, CA Mar 2022 - Jun 2023
<ul style="list-style-type: none"><li>Prepared worksheets and organized discussion sessions with upwards of 50 students weekly</li><li>Hosted Office hours for students to engage with new material and provided assistance with assignments, projects, and exams for 20+ students weekly</li><li>Engaged in weekly staff meetings to provide updates on students' progress and understanding of material, and input course direction</li><li>Collaborated with Professor to establish practice website with archived exam materials from past 5 years for students</li><li>Developed midterm and final project from scratch by segmenting publicly available datasets and created analysis questions using Python</li></ul>	
<b>UnitedHealthcare</b> <i>Data analysis Intern</i>	San Diego, CA Jun 2022 - Aug 2022
<ul style="list-style-type: none"><li>Produced analytic reports on massive call center datasets (1,000,000+ entries) using Python</li><li>Cleaned and cross referenced massive datasets with existing databases using Python leveraged RegEx querying</li><li>Performed sentiment analysis on transcribed recorded phone calls utilizing UHC's systems and produced reports weekly</li></ul>	
<b>Banque Misr</b> <i>Data Science Research Intern</i>	Cairo, EG Jun 2021 - Aug 2021
<ul style="list-style-type: none"><li>Built exchange rate forecast model using Autoregressive Integrated Moving Average (ARIMA) in Python</li><li>Researched feasibility of implementing dedicated data science division within Banque Misr</li><li>Arranged frequent meetings with research head and CFO regarding infrastructure and skills needed for implementation of division</li></ul>	

## PROJECTS

<b>"Predicting the Usage of Urban Bike Share Systems from Date"</b>	Jan 2023 - Mar 2023
<ul style="list-style-type: none"><li>Cleaned and Combined Capital Bikeshare's dataset with 2 meteorological datasets regarding weather conditions and humidity</li><li>Trained variety of regression models on dataset (Linear, KNN, Random Forest and SVM) in Python</li><li>Executed extensive Hyperparameter tuning as well as 5-fold cross validation for each model, and examined various error metrics</li><li>Created various visualizations using Matplotlib to plot performance of error metrics and models against each other</li></ul>	
<b>"Soccer Player Performance versus Market Value"</b>	Jan 2022 - Mar 2022
<ul style="list-style-type: none"><li>Carried out data cleaning and Exploratory Data Analysis on publicly available soccer datasets for thousands of players</li><li>Completed permutation feature importance with Python to determine relevant performance metrics to use in analysis</li><li>Engineered linear regression model with various hyperparameters and segmented analysis for 5 different percentiles</li></ul>	

## SKILLS

**Programming Languages:** Python, R, Java, SQL  
**Spoken Languages:** Arabic, German