

# HUDA ALGHAZOULI

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**GitHub:** [github.com/Hudaalghazouli](https://github.com/Hudaalghazouli) | **LinkedIn:** [www.linkedin.com/in/halghazouli](https://www.linkedin.com/in/halghazouli)

A highly motivated Data Scientist with a degree from Georgia Institute Of Technology, boasting a background in data analysis and visualization through group and solo projects. With a bachelor's degree in Applied Mathematics, two years of experience as a Data analyst, one year of experience as a bookkeeper, and two years of experience as a billing specialist, this candidate brings a diverse skill set to the table.

## SKILLS

**Python, Pandas, Matplotlib, Tableau, Machine Learning, PySpark, SciKit Learn, TensorFlow, AWS, REST API, Flask, SQLAlchemy, SQL, PostgreSQL, Mongo, Excel, VBA Excel, JavaScript, D3JS, Plotly, Leaflet, HTML, CSS, R**

## PROJECTS

**Crystallum Credit Card Company (CCCC) (Python, Pandas, Matplotlib, SciKit Learn, SQL, Supervised ML)**

*Data study to predict customer credit approval and the possibility of receiving future payments (group project)*

[github.com/Hudaalghazouli/Crystallum-Credit-Company](https://github.com/Hudaalghazouli/Crystallum-Credit-Company)

- Merged and analyzed data using Pandas and developed a logistic regression model to predict customer repayment on credit using SciKit Learn.
- Improved model accuracy through multiple regression and classification trials, resulting in an R squared value of 0.99 for testing data and 1 for training data.
- Visualized model performance through ROC curves to showcase the balance between true positive and false positive rates.

**GA Crimes (JavaScript, D3JS, Plotly, Leaflet, Lodash, PostgreSQL, Flask, SQLAlchemy)**

*Data study of the Crimes rate and income per capita in Georgia (group project)*

[github.com/Project-3-Team-D/GA\\_County\\_Crimes](https://github.com/Project-3-Team-D/GA_County_Crimes)

- Developed an interactive dashboard in JavaScript utilizing D3JS to retrieve data.
- Created functional dropdown menus with JavaScript, ensuring an aesthetic integration into the HTML page.
- Visualized and displayed data insights through Plotly charts, showcasing offense types and occurrences per year per agency, with interactive menus for ease of analysis.

**Real-estate Market (Python, Pandas, Matplotlib, Numpy, Gmaps)**

*Data study of the fluctuating real-estate market in Georgia (group project)*

[github.com/Hudaalghazouli/Real-estate-Market](https://github.com/Hudaalghazouli/Real-estate-Market)

- Resolved data generated through Gmaps API to extract coordinates of county seats and generate a heat map based on crime rate data. Used the maps.distance API to calculate the distance from the city of Atlanta.
- Cleansed data with Pandas and utilized Numpy for mathematical operations such as averaging apartment rents.
- Visualized data comparisons through Matplotlib plots and charts, enabling an informed selection of a desirable and secure residential area.

## EXPERIENCE

**Data Analyst**

Oct 2018 – Mar 2020

*360 Laboratories*

*Lawrenceville, GA*

- Analyzed testing data using Python, Jupyter Notebook, Pandas, and Numpy to identify trends and patterns, providing valuable insights into testing performance and identifying areas for improvement.
- Developed and maintained data analytics and reporting tools using software such as Microsoft Excel, SQL, and Tableau to provide regular reports and dashboards to key stakeholders.
- Developed and implemented data cleaning and processing workflows, resulting in increased efficiency and accuracy of testing processes.

## EDUCATION

**Data Science and Analytics** - Georgia Institute of Technology

Nov 2022

*Certificate, Data Science and Analytics.*

**Bachelor's in Applied Mathematics with a Minor in Information Technology** - Georgia Gwinnett College

May 2020