

# Sabina Firtala

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## EDUCATION

### DATA ANALYTICS BOOTCAMP

IRONHACK

Remote | Jan 2022 - Jul 2022

**Data Analytics:** Data Wrangling & Visualization, Descriptive & Inferential Statistics, Web Scraping & APIs, BI

**Machine Learning:** Linear & Logistic Regression, K-Nearest Neighbors, Decision Trees, K-Means Clustering, Pipelines

### NATURAL SCIENCES MSci

UNIVERSITY OF CAMBRIDGE

Cambridge, UK | Oct 2016 - Jun 2020

**Courses:** Climate Change and the Carbon Cycle, Organic Chemistry, Physical Chemistry, Biochemistry | **66.48%, 2.i**

## TECHNICAL SKILLS

**Languages:** Python,  $\LaTeX$

**Databases:** MySQL, Google Sheets, Airtable

**Data Visualization:** Google Data Studio, Tableau

**Python Libraries:** Pandas, Numpy, Matplotlib, Seaborn, Bokeh, SciPy, [SciKit-Learn](#), Keras

**Tools:** Git, Jupyter Notebook

## DATA ANALYSIS EXPERIENCE

### IRONHACK | TEACHING ASSISTANT

Remote | Jul 2022 - present

- **Assessing, tracking, and aiding the progress of 22 students** alongside another teaching assistant
- Helping the Lead Teacher in addressing questions and maintaining student engagement during class

### BERNOULLI FINANCE | FINANCIAL ANALYST

Tenerife, ES | Oct 2020 – present

- Coded a selection algorithm for a foundation **to find donation packages within seconds** for high-value donors
- Conceptualized, built, and automated an inventory valuation model which **improved gross margin accuracy by 4%**
- Projected expected cash flow, helping clients **secure funding (\$1.5MM)** and **invest in brokerage accounts (\$1MM)**
- **Managed at least 6 client projects at any given time**, adapting to shifting priorities and tight deadlines
- Documented and standardized recurring analytical tasks, **reducing task completion time by 1-2h**
- **Interfaced directly with 20+ stakeholders**, including bookkeepers, analysts, project managers, clients' teams
- Managed, supervised, and **mentored 3 junior analysts and 3 contractors**

## DATA SCIENCE PROJECTS

### GLAUCOMA DETECTION FROM RETINAL FUNDUS IMAGES KERAS, SCIKIT-IMAGE, MATPLOTLIB, NUMPY

- Demonstrated the importance of model architecture and extensive training data in detection performance
- Learned to perform image segmentation and build basic convolutional neural networks **in less than 3 weeks**
- Crafted an intro to CNNs and presented the results and relevance of eye disease detection during class

### CREDIT CARD INTEREST PREDICTIVE MODEL

SCIKIT-LEARN, MYSQL, SQLALCHEMY, TABLEAU

- Evaluated two classification models, yielding a **prediction accuracy of 67% per class**
- Analyzed consumer behaviour patterns from **18,000 customers** using [Tableau](#)

### FIFA MONEYBALL SCORE PREDICTIVE MODEL PANDAS, NUMPY, MATPLOTLIB, SEABORN, SCIKIT-LEARN

- Built a linear regression model to predict FIFA players overall score with a fellow classmate in a week
- Cleaned and pre-processed a dataset of **17,000+ players** and **107 player attributes**

## LANGUAGES

English (bilingual), Romanian (native), Spanish (professional)