

# Berbara Romany

## Student

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📅 15/09/2003 🇪🇬 Egyptian

## 🎓 Education

**B.Sc. in Business Analytics,  
Egyptian Russian University**  
2021 – present  
Year 4

## 🧠 Skills

C++	██████████
Python	██████████
R	██████████
Java	██████████
Office 365	██████████
Data Analysis	██████████

## 🎮 Hobbies

Reading

## 🌐 Languages

Arabic

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English

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## 🧩 Strengths

Teamwork

Hard Working

Excellent communication skills

## 📁 Projects

### Predictive Modeling for Car Pricing

Cleaned, preprocessed, and modeled car pricing data using R, employing advanced techniques like LASSO regression, feature selection, and Box-Cox transformations to build robust predictive models.

### Lead Conversion Prediction

Used R to preprocess and balance lead data, developed multiple predictive models (logistic regression, random forests, SVM), and optimized model performance using feature selection and evaluation metrics.

### Market Basket Analysis for Retail Optimization

Leveraged Python to analyze retail transaction data, applied association rule learning (Apriori, FP-Growth), and derived actionable insights for improving product placement and marketing strategies.

### Interactive Departmental Performance Dashboard in Power BI

Designed an interactive Power BI dashboard to analyze KPIs, identify trends, and support strategic decision-making through data visualization and actionable insights.

### **Production Optimization Using Linear Programming in Excel**

Applied Excel Solver to optimize Khalifa's Dairy Products' production mix by formulating an objective function and constraints to maximize profit while efficiently managing resources like milk, yeast, and production capacity.

### **Average IQ and Socio-Economic Indicators Analysis**

Conducted an in-depth analysis of the relationship between average IQ and socio-economic factors globally using Python. Leveraged data visualization and statistical techniques with libraries like pandas, Seaborn, and Plotly to uncover patterns influencing societal well-being and development.

### **World Happiness Report Analysis**

Analyzed global happiness trends and their contributing factors through data analytics and visualization. Utilized teamwork and leadership skills to manage the project, delivering compelling insights via storytelling and exploratory data analysis.

### **Efficiency Comparison Between Online and On-Ground Learning**

Conducted a study using SPSS to analyze the efficiency of online versus on-ground learning among Egyptian Russian University students. Combined descriptive and inferential analyses to conclude that online learning showed greater efficiency based on the sample data.