

# Gokturk Colak

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## EDUCATION

### Istanbul University

Bachelor of Arts in Economics, English Program

- GPA: 3.64/4.00

Beyazit, Istanbul

Aug. 2022 – Present

## EXPERIENCE

### Undergraduate Research Assistant

Istanbul University Informatics Department

- Collected and organized various data sets
- Created complete database of Management Information Systems department heads across 81 Turkish provinces
- Used Microsoft Excel and Google Sheets for data management

Nov. 2023 – June 2024

Vezneciler, Istanbul

## PROJECTS

### Algorithmic Trading System Development | Python, Streamlit, BinanceAPI

Aug. 2025 - Present

- Building Python-based systematic investment approach with quantitative analysis capabilities
- Backtesting for investment strategy validation and developing automated market analysis tools

### Academic Research Paper | Word, Excel, EndNote, R

Feb. 2025 – June 2025

- Conducted comprehensive 15-year macroeconomic analysis of the U.S. economy using official data sources and 20+ academic reports
- Analyzed key economic indicators including GDP, inflation, unemployment, public debt, and productivity trends
- Evaluated policy impacts across four major economic phases including Great Recession and COVID-19
- Produced structured academic report with detailed financial data tables and policy assessments

## TEAMWORK & ACTIVITIES

### Istanbul University Young Investors Club (Genç Yatırımcılar Kulübü)

Istanbul, Turkey

Research Department Member

Oct. 2025 – Present

- Conduct research and prepare draft analyses to support the Social Media Department's weekly insights and posts

### Istanbul University Data Club

Istanbul, Turkey

Vice President

Oct. 2023 – Oct. 2024

- Organized an institutional visit to IBB Data Laboratory and managed corporate communications
- Volunteered at 22nd Academic Informatics Conference focusing on technology and innovation trends

### High School T-MBA Council

Hatay, Turkey

President of Scientific and Artistic Projects

Sep. 2019 – June 2020

- Managed entrepreneurial project development and innovation initiatives
- Managed social responsibility project development and financing initiatives

## TECHNICAL SKILLS

**Programming Languages:** Python, R

**Tools:** Excel, RStudio, Jupyter Notebook, Git, Github, gretl

**Libraries:** pandas, NumPy, Matplotlib, tidyverse, tidyquant

**Machine Learning:** XGBoost, LightGBM, caret, tidymodels

**Languages:** Turkish (Native), English (Advanced), French (Beginner)

## CERTIFICATIONS

**Exploratory Analysis in R** – DataCamp

**Financial Literacy Level 3** – SPL

**Next Generation Banking Simulation** – Isbank

**Digital Banking** – Isbank