

SEVILAY MUNIRE GIRGIN

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[Github](#) | [LinkedIn](#) | [Tableau](#)

SKILLS

Python | Scikit-Learn, NumPy, SciPy, Pandas, Matplotlib, Seaborn
Hypothesis Testing | A/B Testing, t-test, Chi-squared tests, ANOVA
Regression Analysis | Linear and Logistic Regression
Machine Learning | Decision Tree, Random Forest, Gradient Boosting
SQL | Relational Database Design, MySQL, PostgreSQL
Tableau | Dashboards, KPIs, Interactive Graphs
Google Cloud | BigQuery, Looker, Dataflow, Data Fusion, VertexAI

EDUCATION

Google Cloud - From Data to Insights with Google Cloud | [Certification](#) Sep '24
Google - Advanced Data Analytics Course | [Certification](#) Mar - May '24
Koc University - Istanbul, TR Oct '21 - Jun '23
Master of Sciences, MSc. | GPA: 3.82
Bogazici University - Istanbul, TR Sep '15 - Jul '21
Bachelor of Science, BSc. | GPA: 3.40

EXPERIENCE

Scientific Researcher - Koc University | [Publication](#) Sep '21 - Oct '23

- Used **Excel** and **SQL** to process **2708 images** and quantitatively analyzed **16070 data points**.
- Applied **statistical methods**; hypothesis formulation, t-test and ANOVA.
- **Visualized** data by **78 graphs**, **76 figures**, **12 representative images**.
- **Reported** and **presented data** to stakeholders at conferences and weekly group meetings.
- Proved systematic effect of interested molecule on crucial cellular organelle for the first time.

PROJECTS

Gradient Boosting Predictive ML Model for TikTok's Claim Classification May '24
Objective: Develop machine learning model to classify claims for TikTok user submissions.

- Used **NumPy**, **SciPy**, **Scikit-learn** for *EDA*, *hypothesis testing*, and *regression analysis*.
- Built **random forest** and **XGBoost** models, compared its scores on test data.
- Used validation dataset for *model-tuning* and **GridSearchCV** to *optimize hyperparameters*.
- Final model, **XGBoost**, scored **recall of 98%** on test data and presented **predictive features**.

SQL Database & Data Analysis: Tableau Dashboards for Covid-19 Burden on World Mar '24
Objective: Examine spatial and temporal patterns of infection burden and vaccination efficacy.

- Wrote **SQL queries** to create Database, analyze, and manipulate **373,418 data points**.
- Used **postgresql** and **Tableau** to develop and maintain **ETL** processes.
- On **Tableau**, created **11 interactive charts** and **3 dashboards** for ad-hoc analysis and reporting to stakeholders.

Feature Engineering on Study Mobility: Dashboards on Students' Preferences Feb '24
Objective: Identification of study mobility patterns, anomalies, and trends over decade.

- Used **Pandas** for *data cleaning*, *analysis*, and *aggregation* of **2 datasets** with **4032 data**.
- Employed **Tableau's parameters** and table calculations for *data visualization* by **10 charts** and **2 interactive dashboards**.

Pandas & Seaborn: Detailed Study on Differentiated Thyroid Cancer Feb '24
Objective: Provide clear and coherent insights about disease characteristics.

- Via **Pandas**, *cleaned* and *preprocessed data* of **384 patients** to ensure accuracy and reliability.
- Utilized **Matplotlib** and **Seaborn** to assess thyroid cancer risk levels, pathology, occurrence.