ELIF DIKMEN

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EDUCATION

Yeditepe University — **Istanbul/TR**
Bachelor of Science in Computer Engineering — **Sep 2019 - Oct 2025**

New York General Consulting English School — **New York/USA**
Feb 2023-June2023

TECHNICAL SKILLS

Databases: BigQuery,MySQL,PostGreSQL
Programming Languages: Python,Java, JavaScript, C/C++, PhP, Html/CSS, SQL, Dart,R,Swift
Data Visualization Libraries &Tools:MatPlotlib,Plotly,Tableau,Power BI,Django,D3.js, Chart.js
Machine Learning Tools & Libraries & Deployment:Keras,TensorFlow,Pandas,NumPy,SeaBorn,scikit-learn,PyTorch,FastAPI

EXPERIENCE

Università di Bologna — **Cesena/Italy**
Research Intern — **July 2025 - Present**

- Focus on visualizing data collection and privacy practices of LLM-based applications; design, implement, and evaluate interactive visualizations to increase users' awareness of personal data and online privacy.
- Work with the University of Washington and use their published dataset to seed the taxonomy and evaluations, aligning data versions and provenance.Engineer an end-to-end system to ingest GPT app manifests and Action specs, fetch privacy policies, normalize to JSON/Parquet, and link policies to apps/actions via IDs/domains.
- Develop an LLM-based chatbot that answers user questions about data privacy and visualizes the answers directly in the UI .
- Build interactive dashboards (treemap, sunburst, pie chart, heatmaps, searchable table) and compute coverage/consistency metrics; flag gaps and potential policy issues; summarize outliers.
- Tech Stack: Python (pandas, Plotly/Dash, NumPy, regex, requests), JSON/Parquet, OpenAI API, LangChain, Selenium,Jupyter, Git.

OptiWisdom — **Istanbul/TR**
Intern — **May 2024-July 2024**

- Conducted extensive literature searches to gather and synthesize existing research on Digital Twin technology in geographic planning.Compiled comprehensive reports detailing methodologies, findings, and actionable recommendations for resource optimization
- Analyzed case studies and real-world implementations of Digital Twin models, identifying trends and best practices for improving simulation accuracy and predictive capabilities.
- Assisted in the development of data-driven frameworks to integrate Digital Twin technology with GIS systems, optimizing spatial analysis and urban infrastructure planning

Yeditepe University — **Istanbul/TR**
Undergraduate Research Assistant — **Sep 2023-Jan 2024**

- Conducted comprehensive literature reviews on assigned topics, synthesizing information from various sources.Assisted in data collection, organization, and analysis using statistical software.
- Drafted reports summarizing research findings and analysis for publication and presentation.
- Participated in workshops to enhance research skills, including data visualization, academic writing, and research methodologies.

PROJECTS

Football Match Prediction Model — **March 2025-June 2025**

- Developing a macOS and iOS-compatible sports match prediction application leveraging machine learning and data analytics.
- Aggregated match data via API-Football and scraped extra datas using BeautifulSoup/requests; complemented historical datasets from Kaggle.
- Normalized timestamps to ISO-8601, standardized team names, completed missing data via scraping, label-encoded categoricals, and imputed residual NaNs with mean to stabilize training and engineered new features
- Trained Logistic Regression, Random Forest, and XGBoost; ran GridSearchCV over n_estimators, max_depth, min_samples_split, min_samples_leaf with class_weight="balanced" and stratified 5-fold CV.
- Used a time-based split to prevent leakage; selected the best model per league and persisted artifacts with joblib.
- Achieved overall improvements from Accuracy 55% → 63% and macro-F1 54% → 62%; performed class-level diagnostics for home/draw/away outcomes.
- Built a real-time in-match model driven by minute, score, and half-time status; refreshed predictions per minute and logged outputs to SQLite.
- Implemented a lightweight UI with Match Details and Standings panels plus an explainability view visualizing key drivers behind predictions.
- Cached fixtures in SQLite to reduce API calls and improve latency/stability in production.
- Prototyped a macOS/iOS-compatible client (Swift/Xcode) that consumes the model service: users input match details and receive data-driven predictions; supplemented with analytical visuals (Matplotlib, Seaborn) for trend and accuracy insights.
- Tech Stack: Python (NumPy, pandas, scikit-learn, XGBoost, joblib); BeautifulSoup, requests; SQLite; API-Football; Matplotlib, Seaborn; Swift, Xcode.

Atlanta Braves 2024 Game Attendance Prediction Model - Regression & Forecasting — **GTx ISYE6501x**

- Collected and analyzed datasets from Baseball Reference and Weather Underground to assess the impact of team performance, weather conditions, and other external factors on attendance.
- Developed predictive models to forecast game attendance for the 2024 Atlanta Braves season using multiple linear regression, time series regression, and exponential smoothing techniques. Optimized models through backward-step techniques, achieving an adjusted R. of 0.973 and minimizing overfitting with a 5-fold cross-validation approach.

Secure File Vault(Python/VSCode) — **Nov 2024-Dec 2024**

- Designed and implemented a secure file storage system to prevent unauthorized access and data leaks, even in cases of physical hardware capture.Developed features for creating encrypted vaults using AES-256 encryption, with password-based authentication and cryptographic hashing for secure access control.
- Implemented file management functionalities, including adding, viewing metadata, removing, and extracting encrypted files while maintaining their integrity through hashing mechanisms.
- Applied industry-standard security practices, including salting and hashing passwords to enhance confidentiality and integrity.

Exam Planning System(CSS,PHP,SQL/XAMPP,MySQL) — **May 2024-June 2024**

- Designed and implemented a database-driven system using PHP, CSS, and SQL to streamline exam scheduling and management for educational institutions.Developed SQL-based database structures to handle exam scheduling, course assignments, and workload distribution efficiently.
- Created complex SQL queries for features like workload distribution, exam scheduling, and assistant assignment based on availability and workload scores.
- Integrated database-backed features such as dynamic dropdown menus for faculty and department selection, and auto-filled schedules for assistants using SQL joins and procedural logic.

Online Appointment App (Flutter/Dart)

- Developed an online appointment system for university students, facilitating efficient scheduling with faculty and administrative staff.Created comprehensive reports documenting the system design, including UML diagrams such as class diagrams, sequence diagrams, package diagrams, and component diagrams.
- Conducted testing and validation of the system to ensure functionality and usability, resulting in a user-friendly application.Developed a comprehensive online appointment scheduling application utilizing Dart and the Flutter framework

CERTIFICATIONS

- GTx ISYE6501x Analytics Modeling Georgia Institute of Technology
- GTx CSE6040x Computing for Data Analysis Georgia Institute of Technology