

HAIFA GHRIBI

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Istanbul - Turkey

Summary

Motivated 3rd-year Computer Engineering student with a growing expertise in **software development**, **machine learning**, and **data science**. Skilled in **Python**, **Java**, and **C**. Strong foundation in **data structures**, **algorithms**, and **web development**. Eager to apply technical and soft skills to drive innovative solutions in professional settings.

Education

- Marmara University** 09.2022 - Present
B.Sc. in Computer Engineering Istanbul, Turkey
 - Relevant Courses: Data Structures, Analysis of Algorithms, Programming, Systems Programming, Operating Systems, Database Systems, Object-oriented Software Design, Probability, and Statistics.

Work Experience

- VenitLab, Machine Learning Department** 01.2025 - 02.2025
Machine Learning Intern Istanbul, Turkey
 - Conducting **data preprocessing**, **feature engineering**, and **exploratory data analysis** to enhance model performance.
 - Developing, optimizing, and fine-tuning **machine learning models** for predictive tasks.
 - Deploying models for real-time use and performance monitoring.
- Albayrak Group, Machine Learning Department** 07.2024 - 08.2024
Data Science Intern Istanbul, Turkey
 - Developed proficiency in **Python libraries** for machine learning and data analysis.
 - Conducted **data preprocessing** and **exploratory data analysis (EDA)**.
 - Applied **supervised and unsupervised learning algorithms** in multiple projects.
 - Optimized clustering using techniques like the Elbow Method and silhouette score.
 - Collaborated with a mentor and cross-functional team to enhance problem solving and machine learning skills.
- EduTest** 07.2020 - 08.2020
Web Development Intern Sousse, Tunisia
 - Led a Web Development club**, mentoring participants in front-end development.
 - Taught **HTML**, **CSS**, **JavaScript**, and **Bootstrap**, for building responsive web applications.
 - Conducted workshops on **technical** and **soft skills**, including teamwork, and problem-solving.

Projects

- House Price Prediction using Machine Learning** 02.2025 - 03.2025
 - Developed an end-to-end house price prediction model using **Python**.
 - Collected and preprocessed real estate data, handling missing values, skewness, and outliers.
 - Performed **exploratory data analysis (EDA)** to uncover correlations and key features.
 - Applied **feature engineering techniques** to improve model performance.
 - Trained multiple regression models (**Linear Regression**, **Decision Trees**, **Random Forest**, **XGBoost**) to optimize accuracy.
 - Used **hyperparameter tuning**, achieving **20% lower RMSE**, improving model performance.
 - Deployed** the trained model on a locally hosted web app using **Flask**, allowing real-time predictions.
- 2-TSP Problem Solver Project** 04.2024 - 05.2024
 - Designed and implemented an optimized algorithm** for the Two-Traveling Salesmen Problem (2-TSP) using **C**.
 - Implemented **K-Means clustering** to divide cities into two groups, assigning one group to each salesman.
 - Applied the **Nearest Neighbor algorithm** for initial route generation, followed by **2-opt heuristics** for further optimization.
 - Achieved a **22% reduction in tour length** compared to a greedy approach, improving efficiency.

Experience and Activities

- **Yale Young African Scholars Mentor** 09.2022 - 02.2023
Remote
 - Guided young African students through the university application process, maintaining regular bi-weekly communications to provide support for applications to universities in the USA and abroad.
- **Set Free Tech Workshops** 09.2019 - 04.2021
Sousse, Tunisia
 - Organized free tech workshops in schools and organizations to promote digital literacy among children, demystifying technology and coding.
- **Yale Young African Scholars 2020 Alumni** 07.2020 - 08.2020
Remote
 - Selected out of thousand applicants to join an intensive academic and enrichment program, acquired academic and soft skills while fostering a deeper understanding of diverse African cultures.
- **WeRWebDevs Bootcamp by US Embassy and Mentornations** 08.2019 - 09.2019
Tunis, Tunisia
 - Selected out of 1400 applicants for a month-long Web Development Camp, collaborating with participants to enhance full-stack web development skills.

Skills

- **Languages:**
 - **Native:** Arabic. **Bilingual:** French. **Fluent:** English, Turkish. **Beginner:** German.
- **Programming Languages:**
 - C, Python, Java, C#, Assembly, MATLAB, JavaScript, Prolog, Haskell.
- **Data Science & Machine Learning:**
 - Python (Pandas, NumPy, Scikit-learn, TensorFlow), MySQL.
- **Web Development:**
 - HTML, CSS, Bootstrap, Angular, UI/UX Design, Figma, Node.js.
- **Tools & Technologies:**
 - Linux/Unix, GCC Compiler, Git, Jupyter Notebook, Anylogic, LaTeX, VSCode, MS Office.
- **Soft Skills:**
 - Communication, Problem-solving, Team Collaboration, Adaptability, Time Management.

Honors and Awards

- **Government Scholarship to study Computer Engineering in Turkey** 08.2021
Government of Turkey
- **Acceptance to African Leadership Academy** 09.2020
African Leadership Academy, South Africa
- **Certificate of Leadership** 09.2019
US Embassy in Tunisia
- **Certificate of Achievement and Technical Skills** 09.2019
US Embassy in Tunisia
- **3rd Place, National Sudoku Competition** 05.2016
National Competition, Tunisia