Mehmet Ebrar Karademir

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Bursa / Turkey

EDUCATION

Marmara University, Istabul/Turkey   *2018 - present*

Engineering Faculty, Industrial Engineering Department

- 2020 Case Analysis Competition – 2nd Place – University Wide – 8 teams
- 2021 Case Analysis Competition – 1st Place – University Wide – 10 teams
- 2021 Case Analysis Turkey Finals – 5th Place – National Wide
- 2022 Case Analysis Competition – 2nd Place – University Wide – 100 teams
- **Graduate Project** : As a graduation project, we utilized Turna.com's passenger and flight transaction dataset to propose a pricing strategy solution for their ticket cancellation insurance service. To address this challenge, we employed machine learning models trained on passenger and flight transaction data to accurately forecast passenger ticket cancellation behavior in advance.
- **GPA** : 3.00 / 4.00

PROFESSIONAL EXPERIENCES

Software Engineer, Innoppia, Rotterdam/Netherlands   *2023 July – present*

- Authored the third sprint of the AIPlan4EU project, establishing a robust foundation for subsequent phases.
- Engineered a backend system for the FabMetrics platform, optimizing for efficiency and scalability.
- Constructed a task planner docker designed to operate seamlessly on AWS EC2.
- Assisted in frontend development for FabMetrics, ensuring user-centric designs and intuitive interfaces.
- Undertook comprehensive testing of the AIPlan4EU project, ensuring functionality and performance metrics were met.
- Solely managed project phases, culminating in the successful completion of project sprint reports.
- Initiated application processes for new projects while simultaneously overseeing the current AIPlan4EU project testing.
- Successfully managed a project budget of €60k over a duration of 7 months.
- Technologies used: Python, pandas, numpy, Git, Jupyter notebook, Amazon Web Services , DynamoDB, AWS Lambda, S3, EC2, IAM, Postman, VS Code, AWS API Gateway, Docker

Software Engineer Intern, Innoppia, Rotterdam/Netherlands   *2023 April – 2023 July*

- Innoppia is a pioneer in offering SaaS solutions via the FabMetrics web platform to equipment manufacturers, with the aim of enhancing manufacturing capabilities by leveraging technologies like IoT, Big Data, Machine Learning, and Cloud Computing.
- Played an instrumental role in the EU-funded AIPlan4EU project, which aspired to unify diverse planning and AI use case problems under the UnifiedPlanning Python Library.
- Developed an optimization model addressing technician allocation challenges for Sampa, leveraging the UnifiedPlanning library.
- Spearheaded integration of the optimization model to SAP and FabMetrics, ensuring seamless data exchange and API compatibility.
- Assumed project management roles, composing sprint reports and delivering timely updates to consultants.
- Collaborated closely with cross-functional teams, ensuring project milestones were achieved and fostering productive communications.
- Technologies used: Python, pandas, numpy, Git, Jupyter notebook, Amazon Web Services , DynamoDB, AWS Lambda, S3, EC2, IAM, Postman, VS Code, AWS API Gateway

Assistant IT Specialist, English Home, Istanbul/Turkey   *2022 Aug – 2022 Oct*

- Provided technical support using SAP for IT related tickets.. Developed Python scripts to automate tasks, optimizing departmental workflows and enhancing planning processes.
- Bridged IT support and Python programming to deliver effective solutions for operational challenges.
- Technologies used: Python, pandas, numpy, Git, Jupyter notebook, MSSQL, SQL, SAP

Data Science Intern, Iletisim Yazılım, Bursa/Turkey   *2021 July – 2021 Aug*

- Intern experience at a software company specializing in ERP applications, acquiring insights into ERP software functionality and fundamental Data Science principles.
- Conducted data visualization, developed predictive machine learning models, performed data analysis, and generated comprehensive reports.
- Technologies used: Python, pandas, numpy, matplotlib, tensorflow, Jupyter notebook

Other Projects

- *digit-recognizer:* I trained Convolutional Neural Network on MNIST dataset to detect and classify hand written digits. Later, I coded desktop GUI for it with Tkinter, where user can draw their digits and trained ML model predicts.
- *game-ai-project :* I developed a basic jump and slide game with 3 stages and then I trained AI agent to learn how to play this game with using Python's NEAT algorithm. For the game interface and model GUI, I used Python's pygame module.
- *criminal-database-manangement-system :* In this project I developed a basic text-based database system with Java for saving, searching and managing criminal records. I used File I/O and Object Oriented Programming concepts.
- *github.com/ebrarkarademir :* All Github projects and repositories.

TECHNICAL SKILLS

- Strong proficiency in Python for data manipulation, data visualization, explanatory data analysis, feature improvement, and machine learning, Python, pandas, matplotlib, numpy, tensorflow, scikit-learn, statistics libraries (scipy, statmodels), tkinter,
- Experience in Java for desktop application development, Java FX, and Java Swing
- Knowledge of MSSQL, SQL
- Familiar with Amazon Web Services (AWS)
- Experience using Git, GitLab, Github, Jupyter notebook, and Visual Studio Code
- Advanced English skills (YÖKDİL 03/2021: **95/100**)

VOLUNTEER EXPERIENCE

- **Summer Work And Travel Program 2019** : Worked as a lifeguard for 3 months in Maryland, USA to improve spoken English and communication skills
- **Erasmus+** : Participated in Erasmus+ Project about extremism in society in Thessalanoiki, Greece
- **AIESEC** : Volunteered at Consideration of Global Talent department for 4 months for AIESEC, responsible for selling and fitting internship programs to students
- **University Student Club** : Participated in management of Marmara University Gastrokültür Society, organized events about gastronomy, workshops, food taste etc.

INTERESTS

- Psychology, Swimming , Gastronomy, Lifting, Hiking, Camping, Classical Guitar, Music