Nesibe Nur Pekçakar

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Education

Izmir University of Economics **Oct 2020 – Aug 2025**
B.Sc. in Computer Engineering ***(Full Scholarship) — GPA: 3.48/4.00*** *Izmir, Turkey*
Relevant Coursework: Algorithms, Software Engineering, Database Systems, Machine Learning

Riga Technical University **Aug 2023 – Jan 2024**
Erasmus+ Exchange Program *Riga, Latvia*
Relevant Coursework: Object-Oriented Software, Software Maintenance, Knowledge Management

Experience

Planet Yazılım **Jun 2025 – Jul 2025**
Software Development Intern *Izmir, Turkey*
- Designed an AI-powered error log analysis web system using **.NET**, **Blazor**, and **Python (Mistral-7B)**.
- Aimed to reduce manual log review and debugging by automating grouping and explanation of errors.

Dokuz Eylul University **Jun 2024 – Jul 2024**
Software Development Intern *Izmir, Turkey*
- Implemented a **RESTful APIs** project that uses design patterns as well as data management.
- Integrated new mealtime functionality into the cafeteria pass system using **Python**, aiming to improve daily usability for students.

Projects

AI Error Log Analyzer **Internship Project**
Python, .NET, Blazor, LLMs
- Fine-tuned the **Mistral-7B** model with synthetic/real error logs. The dataset was preprocessed.
- Designed a **website** and an API backend and connection tunnel with **ngrok**.
- The system is able to give suggestions for error logs in both **Turkish** and **English**, designed to accelerate developer debugging.

Prompt Optimizer **Academic Team Project**
Python, LLaMA, Google Colab, LoRA, HF Transformers
- Designed and implemented a personalized prompt optimization system using **LLaMA-3B-Instruct** with **LoRA fine-tuning**.
- Created preprocessing pipeline **Python**, to enhance model performance.
- Improved model output quality by **59%**, achieving **55%** user preference in **A/B tests**.
- Selected among **the top 6** projects in the **Graduation and Big Year Fair (GBYF)**.

Class to Classroom Scheduling System **Academic Team Project**
Java JavaFX, Maven
- Developed a scheduling application for classroom and course management using **Java** to reduce manual labor.
- Automated classroom assignment with manual override options, improving scheduling efficiency.
- Packaged as a Windows executable using **Maven** for offline use.

Technical Skills

- **Languages:** Python (Pandas, NumPy, Flask), Java (JavaFX, Maven), C#
- **Frameworks/Tools:** .NET, Blazor, Git/GitHub, REST APIs, Google Colab
- **AI/ML:** fine-tuning, Hugging Face Transformers, LLaMA, Mistral-7B, LoRA, WandB
- **Software Engineering:** OOP, Design Patterns, Agile/Scrum practices, Version Control
- **Databases:** MySQL, SQLite, Oracle SQL