

# Arzu Selda Avcı

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## Education

**Kocaeli University, Computer Engineering (Bachelor's Degree)** GPA: 2.67/4.00 2022–2026  
**Private Mektebim Science High School – Kocaeli** (*Top student*) 2018-2022

## Professional Work Experience

**Menulux – Mobile Application Developer Intern** November 2025 – December 2025  
Android (Kotlin): A mobile film application was developed incorporating TMDB API integration, secure request management, and an auto-login mechanism using Firebase Authentication; data mapping and performance optimizations were implemented.

**Insurance Information and Monitoring Center – Software Developer Intern** July 2025 – Sept 2025  
Full-Stack Web Application: Backend APIs were developed using Java Spring Boot and integrated with a web-based user interface. Data flow was ensured through RESTful services, strengthening the system's security and sustainability.

**Kocaeli University Computer Networks Laboratory – Software Developer** March 2025 – July 2025  
Full-Stack Web Application: Backend APIs were developed using C# and integrated with a Vue.js-based web interface.

**United States of America – Work and Travel (Lifeguard)** June 2024 – October 2024  
International Work Experience: Actively involved in team coordination, responsibility management, and rapid decision-making processes within an intensive and multicultural working environment. Developed disciplined working practices, communication skills, and crisis management competencies in operational processes.

## Projects

**HR Analytics – Regrettable Attrition Prediction**  
An analytical model was developed to predict employee attrition risk by applying data mining and machine learning techniques on workforce data. The study is currently under academic publication and conference review. (Python, Pandas, NumPy, Scikit-Learn, Data Mining, Machine Learning, Statistical Analysis)

**Multimodal Emotion Recognition**  
A high-accuracy (81.3%) deep learning model for emotion recognition was developed by integrating visual and audio data. (Python, PyTorch/TensorFlow, Multimodal Learning, Deep Fusion)

**Traffic Insurance Quotation and Policy Platform**  
A web-based quotation and policy management system was developed to digitalize insurance processes. (Java, Spring Boot, RESTful API, PostgreSQL, Layered Architecture, Git)

## Technical Skills

**Programming Languages:** Java, Python, C#, JavaScript, SQL, Kotlin

**Data & Artificial Intelligence:** Data Mining, Machine Learning, Fundamental Deep Learning

**Technologies Used:** Pandas, Scikit-Learn, PyTorch, Spring Boot, ASP.NET Core, RESTful API, Vue.js, Android (Kotlin), MVVM, Jetpack Compose, Room Database, Retrofit, PostgreSQL, SQL Server

**Tools & Cloud:** Git, Firebase (Authentication), API Integration, Layered Architecture