

# PROJ302 ML & Microprocessor System Design Internship Digest

Ideaktif Danışmanlık & Yazılım LTD. ŞTI. / Adatepe Neighb. Doğu St. No:207/AG DEPARK Beta Bld. 203  
DEU Tınaztepe Campus, 35000 Izmir, Turkey

June,11 – August,13,2021

Barişcan Köse / Sabancı University Electronics Engineering Program

Predicting L'Oreal Distributor SALDOS' Trendyol Sales Numbers & Sensitivity Analysis  
SOSCode Panic Button Embedded in Hospital ID Cards for Emergency Situations using iBeacon Indoor  
Positioning

1. Put together SQL server and tables to hold all information for future machine learning processing and created a deep neural network machine learning model for sales number predictions
2. Carried out sensitivity analysis using experimental libraries with boosted trees regression
3. Soldered together all the proper microprocessor components
4. Used Neil Kolban's ESP32 BLE and Wifi libraries to scan for the nearest beacon and send the location data to a server via an API