Kaya Celebi

EDUCATION

Duke University 2019 - 2023

B.S. in **Computer Science**, B.S. in **Statistical Science**, GPA 3.6
Courses: Algorithms and Data Structures, Discrete Math, Linear Algebra, Probability, Artificial Intelligence, Regression Analysis, Database Systems, Machine Learning, High Dimesional Analysis, Statistical Computing, Multivariable Calculus

EXPERIENCE

Incoming Data Analyst - Morgan Stanley

August 2023

Chief Technical Officer - Conmigo

April 2022 - Present

Lead technical design team for Conmigo app and data analysis. Engineered back-end and designed match-making machine learning algorithm. **Designed cohort tests** among real students to **debug and train ML model** to improve match-making.

Database Administration Intern - IBM

Summer 2022

Collaborated with fellow interns to create Performance Analytics Simplification Suite (*PASS*) dashboard. **Designed** final product, **led team sprints**, and **implemented back-end** for *PASS*, which allows for managers and engineers to easily view test performances for the dozens of projects that they oversee.

Electrical Engineering REU Researcher - Columbia University

May 2019 - Present (3 years)

Designed **linear & dynamic programming algorithms** to optimize wifi-network flows in cities (2020). **Conducted experiments**, designed and implemented a **machine learning model to detect wind speed** in FMCW radar measurements. Created pipeline using **high dimensional analysis and signal processing** techniques (2022). **Designed LSTM Neural Network** to predict signal strengths for a new 5G cell tower in unmeasured areas (2023).

Undergraduate Teaching Assistant - Duke University

Fall & Spring of 2020, 2021, 2022

PROJECTS

riscv-assembler - Python package

Fully developed and deployed package that assembles machine code.

Google Flight Analysis - Data Mining & Analysis

Fully developed and deployed package to scrape and analyze Google Flight data.

Provides tools to analyze flight prices and make predictions.

Dow Jones & VIX Prediction - Machine Learning model

Using **regression** and **NLP** on Wall Street Journal headlines to predict finance indices.

ORGANIZATIONS
Turkish Students Association, Duke Sailing, Duke Club Soccer, Duke Applied Machine Learning, welovecoding.org

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celebikaya.com
github.com/kcelebi
linkedin.com/in/kaya-celebi

INDUSTRY KNOWLEDGE
Machine Learning
Data Visualization
Statistical Modeling
Cloud computing
Continuous Integration
Continuous Delivery
Data Mining
Research

CODE
Python, **Java**, **R**, **C**, **SQL**, **PyTorch**, **scikit**, **numpy**

FRONT/BACKEND DEV
JavaScript, **AWS**, **MongoDB**, **IBM Cloud**, **HTML**, **CSS**

HONORS
2021 Live Màs Scholar
2019 HackDuke Winner

INTERESTS
Deep Learning
Unsupervised Learning
Financial Forecasting
Sports Analytics
Screenwriting
Linguistics

OTHER
English, Turkish (native)
Spanish, Dutch
tensorflow, **pandas**, **GitHub**, **Microsoft Office**