Berke Can Rizai

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- Interested in Machine Learning, AI, Data Science. Open-source contributor to popular ML libraries scikit-learn and MLflow.
- Relevant Coursework: Machine Learning, AI, Data Structures, Applied Statistics, Algorithms, Optimization Methods, Operating Systems, Stochastic Methods, Computer Vision with Deep Learning
- Experienced with Java, Python, C, SQL, Data Science, ML libraries (XGBoost, ScikitLearn, Pytorch, NumPy, Pandas), AWS, MongoDB, Docker, C#, React Js

Education

Simon Fraser University — Vancouver, Canada
B.S. Computer Science – Exchange, Study in Canada Scholarships — *Jan. 2022 – Apr. 2022*

Koç University
B.E. Computer Engineering – GPA: 3.35 | Vehbi Koç Scholars | Dean's Honor List — *2018 – 2023*

Koç University
B.E. Industrial Engineering (Double Major) — *2020 – 2023*

Experience

Data Science Intern — May 2022 – Present
Getir
- Built pipeline for train and inference of a ML model that calculates price elasticity of more than 4500 products with double ML (causal inference) approach.
- Improved sales prediction accuracy MAPE by 6%, with feature engineering and hyper-parameter tuning.
- Created Tableau dashboard that is fed by live model for decision making by pricing team.
- Developed optimization model for courier shift assignments.
- Created and deployed job recommender system using LDA topic modelling that matches users with relevant jobs.
- Tools: AWS SageMaker, Python, MongoDB, SQL, RedShift, S3

Undergraduate Research Assistant — Nov. 2021 – Present
IUI Lab (Prof. Metin Sezgin), Koç University
- Added support for hand-writing recognition, created validation scripts.
- Improved fluidity and UX with JavaScript.
- Implemented unit tests, created CI/CD pipeline.
- Created pipeline for pre-processing drawing data, training and optimizing SVM model and logging results.

Software Engineer Intern — Feb. 2021 – Jan. 2022
Koçfinans
- Created full-stack web app that pulls auth code from SQL database and sends it to user. This is currently being used by clients.
- Implemented employee skills vectorization for clustering in gamification project.
- Created a Java app that reads data stored on Excel documents and transfers them to JSON.
- Transformation and data processing on more than 1200 clients unstructured data.
- Contributed to pre-processing step of ML project for credit risk scoring. Tools: Python, Java Spring, React Js.

Student Ambassador — Dec. 2020 – Aug. 2021
Microsoft
- Created projects using Azure Cognitive Services (Vision, Text analytic, Search API, ML).
- Took courses about Azure solutions. Created PowerBI dashboards.

Software Engineer — Nov. 2020 – May. 2021
Spark Team
- Developed and formatted Python codes for an autonomous electric car. Area of interest detection with OpenCV.

Game Developer Intern — Sep. – Oct. 2020
Mayadem
- Developed a 2D Android platformer game using C# and Unity.

Extracurricular Activity

Committee Member
IEEE Student Branch

- Managed team of 6. Promoted the club events and designed swag such as notebooks and t-shirts.

IndEx'19 Volunteer
IES Student Branch

- Coordinated case solving events with companies. Designed workshops.

Event Officer
Koç University Economics Club

- Reached out to speakers for economics conference, helped the organization of the event.

Team Member
Nasa CanSat Competition

- Found sponsorships that would help us gather electronic parts.

Projects

- Linear Programming Solver – Java app that takes objective function and constraints from user in a GUI and outputs solution step by step with two phase simplex method. https://github.com/berkecanrizai/two-phase-solver
- FPGA Board Morse Translator – FPGA Board translates morse input from switches to alphabet and shows on the screen and vice versa. This project was selected as 4th best project in class of 113 students in digital design course. Written with VHDL.
- Analysis of Covid CFR (Case Fatality Rate) and different estimators such as (GDP per capita, CVD, Air pollution, Number of hospitals per capita, number of hospital beds per capita, diabetes among population etc.) https://github.com/berkecanrizai/covid-cfr-analysis - Notebooks are available
- Discord Java Bot: https://github.com/berkecanrizai/Discord-Java-Bot
- Built stock trading algorithms using Python with basic indicators such as moving averages, some of those were partially successful. Also built stock scoring algorithm based on recent news with Beautiful Soup library and NLP.
- Linux virtual memory manager implemented with C. https://github.com/berkecanrizai/virtual-memory-manager

Technical Skills

Languages: Java, Python, C, SQL (Postgres, SQLite, CX2), React Js., C#, VHDL
Other: Amazon Web Services, Docker, Git, Data Science, Data Visualization