OZLEM GULSUM KILICKAYA

University of the People, Department of Computer Science-Instructor

ozlemgulsumkilickaya.editor@gmail.com

GitHub: https://github.com/OzlemGulsumKilickaya

LinkedIn: https://www.linkedin.com/in/ozlem-kilickaya-96652320b/

Kaggle: https://www.kaggle.com/zlemglsmklkaya

Ozlem Kilickaya, PhD. I am an instructor at the University of the People. In 2012, I graduated from Hacettepe University. In 2016, I graduated with distinction from Atilim University with a master's degree in mechatronics engineering. I obtained my PhD in engineering with honors from Pebble Hills University in March 2023. My interest in artificial intelligence and subsequent adventures began with a professional certificate program in artificial intelligence at Harvard University. Following that, I completed the IBM, Kaggle, and HackerRank artificial intelligence certificate programs. I am a code enthusiast who has worked with a number of computer languages. I enjoy Python, R, Java, C/C++/C#, MATLAB/Simulink, and SQL. I've had 12 years of experience. I got a bronze medal in one of the Kaggle competitions. It was about detecting credit card fraud on American Express credit cards. In addition, I have 5 years of expertise as an academic editor and 3 years as a technical author. I'm a reviewer for the International Journal of Mechanical Engineering and Applications (IJMEA) and the ScienceDirect-Elsevier journal Cyber Security and Applications.

Awards:

1. Kaggle: American Express Default Prediction- Bronze Medal (August 2022)

Professional Certificates:

- **Harvard University- Data Science:** Data science, statistics, machine learning and R programming (2019)
- **University of Maryland:** Drones & Autonomous Systems (2019)

Certificates:

1. IBM: Introduction to Data Science (2020)
2. IBM: Data Science Methodology (2020)
3. IBM: Python for Data Science (2020)
4. IBM: Data Analysis with Python (2020)
5. IBM: Data Visualization with Python (2020)
6. IBM: Analyzing Big Data in R Using Apache Spark (2020)
7. IBM: Machine Learning with Python (2020)
8. IBM: Deep Learning Fundamentals (2020)
9. IBM: Deep Learning with Tensorflow (2020)
10. IBM: Big Data 101 (2020)
11. IBM: Spark Fundamentals I (2020)
12. IBM: Hadoop 101 (2020)
13. IBM: Data Visualization with R (2020)

14. IBM: Machine Learning with R (2020)
15. IBM: Machine Learning-Dimensionality Reduction (2020)
16. IBM: Bitcoin 101 (2021)
17. IBM: Digital Analytics & Regression (2021)
18. Kaggle: Python (2022)
19. Kaggle: Pandas (2022)
20. Kaggle: Introduction to Machine Learning (2022)
21. Kaggle: Intermediate Machine Learning (2022)
22. Kaggle: Data Visualization (2022)
23. Kaggle: Time Series (2022)
24. Kaggle: Machine Learning Explainability (2022)
25. Kaggle: Introduction to Deep Learning (2022)
26. Kaggle: Feature Engineering (2022)
27. Kaggle: Data Cleaning (2022)
28. Kaggle: Computer Vision (2022)
29. HackerRank: Python (2022)
30. ChatGPT103: How to Use ChatGPT in Tech/Coding/Data (2023)
31. ChatGPT102: Prompt Engineering and Advanced ChatGPT (2023)

Journal Roles:

1. International Journal of Mechanical Engineering & Applications- Reviewer (2022-current)
2. ScienceDirect-Elsevier: Cyber Security and Applications- Reviewer (August 2023-current)

List of Publications:

1. 4th International Conference of Control, Dynamic Systems and Robotics (CDSR'17) Toronto, Canada
   Title: Attitude Control of Cubesat in Single Axis by Fuzzy Logic Controller
2. ICAT 9th International Conference on Advanced Technologies, August 10-12, 2020 Istanbul, Turkey.
   Title: Fault Detection of Bearings with Time Series Analysis: A Pilot Study
3. Credit Card Fraud Detection: SMOTE Technique to Improve Model Performance. *Preprint.* 11 April 2023.
4. Kilickaya, O. (2024). Credit Card Fraud Detection: Comparison of Different Machine Learning Techniques. International Journal of Latest Engineering and Management Research (IJLEMR), 9(2), 15-27. https://doi.org/10.56581/IJLEMR.9.02.15-27
5. Kilickaya, O. (2024). Genre Classification and Musical Features Analysis. International Journal of Latest Engineering Research and Applications, 9(4), 18-33.
6. Kilickaya, O. (2024). Deep Learning-Based Mineral Classification Using Pre-Trained VGG16 Model with Data Augmentation: Challenges and Future Directions. International Journal of Latest Engineering and Management Research (IJLEMR), 9(10).

*****(Excellent) ****(Very Good) ***(Good) **(Fair) * (Poor)

Skills	**Level**	**Experience (years)**
Python (Keras, Scikit learn, Pandas, PyTorch, NumPy, Matplotlib, Matplotlib, Seaborn, Plotly, etc.)	*****	12
MATLAB/Simulink	*****	12
SQL & Databases	*****	12
Business Intelligence	*****	12
Power BI	*****	12
Tableau	*****	12
R	*****	12
SPSS	*****	12
Analysis and reporting	*****	12
Statistical tests (T-test- paired t-test, ANOVA/MANOVA, etc.)	*****	12
Data mining	*****	12
Time series analysis	*****	12
Optimization	*****	12
Signal processing	*****	12
Pattern recognition and computer vision	*****	7
Natural Language Processing (BERT, BART, Word2Vec, etc.)	*****	5
Data science	*****	7
Machine Learning (supervised, unsupervised and reinforcement learning)	*****	7
Deep Learning (CNN, RNN, LSTM, etc.)	*****	7
Neural Networks	*****	7
Evolutionary Algorithms (Genetic Algorithm, Particle Swarm Optimization, etc.)	*****	12
Cloud tools (AWS, Google, Azure)	***	5
Data science frameworks and tools (Kedro, Weights & Biases, etc.)	***	5
Prompt Engineering	****	5
Control Engineering	*****	5
Robotics	*****	12
Metatrader 4&5	****	5
Quant Trading	****	5