

PERSONAL INFORMATION

Engin Can Esen

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Nationality Turkish



WORK EXPERIENCE

February 2024 – May 2024

Intern – Research Assistant

Ege University, Institute of Nuclear Sciences 35100 Izmir, Turkey

- Conducted research in the field of environmental radioactivity, with a primary focus on radon gas
- Measured radon concentrations in indoor air, soil, and water
- Used RAD7 detection system for monthly monitoring
- Collected and cleaned data for statistical analysis
- Compared results with reference limits established by various international standards
- Contributed to documentation and interpretation of scientific findings

[Higher Education and Scientific Research – Environmental Radioactivity](#)

December 2022 – June 2023

Participant – Data Science and Machine Learning Program

MIUUL(VBO), Istanbul – 34000, Turkey

- Participated in a hands-on Data Science and Machine Learning training program
- Developed practical projects involving:
 - Customer churn prediction models for FLO
 - Recommendation systems using real user data from Armut
 - Real estate price analysis using regression models
- Utilized tools and libraries such as Python, Pandas, NumPy, Scikit-learn, and SQL
- Applied A/B testing methods to evaluate model effectiveness
- Focused on data preprocessing, feature engineering, model training, and performance evaluation

[Online Education in Data Science and Artificial Intelligence](#)

September 2021 – June 2022

Physics Teacher

Fen Bilimleri, 35610 İzmir, Turkey

- Taught physics courses to final-year high school students preparing for university entrance exams
- Delivered lessons and conducted problem-solving sessions in alignment with the national curriculum
- Provided structured instruction to intermediate-year students, focusing on conceptual understanding
- Designed educational materials tailored to various student levels
- Aimed to build students' physics knowledge from basic to advanced levels

EDUCATION AND TRAINING

September 2019 – June 2024

Bachelor of Science in Physics

Final GPA: 3.38 / 4.00 – Equivalent to 95 / 110

Faculty of Science, Department of Physics – Manisa Celal Bayar University
Manisa, Turkey

- Analysis of radon measurements in environmental sciences
- Experimental study using sol-gel method in solid state physics

EQF Level 6
(Bachelor's Degree)

PERSONAL SKILLS

Mother tongue(s) TURKISH

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B1(5.0)	B1(5.0)	B2(5.5)	B2(5.5)	B2(5.5)
ENGLISH IELTSACADEMICB2(5.5)				

PROJECTS

February 2024 – May 2024

Intern – Environmental Research Trainee (Monitoring of Radon in Urban Water Distribution Systems)

EgeUniversity, Institute of Nuclear Sciences – 35100Izmir, Turkey

- Carried out a monthly radon gas monitoring project in the city's water distribution network
- Used RAD7 device to measure radon concentration
- Collected and preprocessed environmental data
- Contributed to the scientific interpretation of findings related to environmental radioactivity
- Analyzed results and compared them with international reference standards

December 2022 – June 2023

Participant – Practical Data Science & Machine Learning Project (Customer Segmentation – FLO)

MIUUL(VBO), Istanbul – Turkey Online Education in Data Science and Artificial Intelligence

- Developed a classification model for customer segmentation using behavioral and purchasing metrics
- Performed data preprocessing, feature selection, and trained machine learning models (K-Means, Random Forest)
- Applied the model to real CRM data from FLO to improve retention strategies
- Technologies used: Python, Pandas, NumPy, Seaborn, Scikit-learn

December 2022 – June 2023

Participant – NLP & Machine Learning Project (Sentiment Analysis – Reddit (r / WallStreetBets))

MIUUL(VBO), Istanbul – Turkey Online Education in Data Science and Artificial Intelligence

- Built a sentiment classification model on Reddit comments related to stock trading (buy/sell)
- Applied Natural Language Processing (NLP) to detect stock names and user position statements
- Technologies used: Python, Scikit-learn, ChatGPT, NLTK

December 2022 – June 2023

Participant – Practical Data Science & Machine Learning Project (Personalized Recommendation System – Armut)

MIUUL(VBO), Istanbul – Turkey Online Education in Data Science and Artificial Intelligence

Minors in Data Science:

Pursued a secondary academic focus in Data Science, with coursework in machine learning and data analytics.

- Designed a personalized recommendation system based on real customer data from Armut
- Worked on data preprocessing, exploratory analysis, collaborative and content-based filtering
- Applied model evaluation techniques such as RMSE and A/B testing
- Technologies used: Python, Pandas, NumPy, Scikit-learn, ChatGPT

- Organisational / managerial skills**
- Developed team collaboration and long-term project coordination skills during a Data Science & Machine Learning bootcamp, working on practical, goal-oriented group projects
 - Gained experience in project planning, milestone tracking, and task delegation in fast-paced, deadline-driven environments
 - As a physics teacher, demonstrated classroom management, student performance monitoring, and curriculum-based lesson planning
 - Skilled in time management, multitasking, and maintaining productivity across multiple educational and research roles
- Job-related skills**
- Hands-on experience in data analysis and visualization using Python libraries (Pandas, NumPy, Matplotlib, Seaborn)
 - Built Machine Learning models from scratch, including data preprocessing, feature engineering, model training, and evaluation
 - Developed and deployed Deep Learning projects in areas such as recommendation systems and sentiment analysis
 - Applied Natural Language Processing (NLP) techniques in real-world text classification and sentiment projects
 - Worked with real datasets from companies like FLO and Armut to solve business problems through AI solutions
 - Experienced in evaluating models with metrics like RMSE, precision, recall, and using A/B testing in experimental setups
- Computer skills**
- Proficient in Python programming, including libraries such as NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn, TensorFlow, and Keras (acquired through academic training and hands-on ML/DL projects)
 - Skilled in data visualization and exploratory data analysis using Matplotlib and Seaborn
 - Experience with SQL, A/B testing, and model evaluation in business-oriented machine learning projects
 - Familiar with tools such as Jupyter Notebook, Google Colab, Git, and Visual Studio Code
 - Good command of Microsoft Office tools (Word, Excel, PowerPoint) and Overleaf (LaTeX) for reporting and presentations
- Other skills**
- Consistent in self-directed learning and staying up to date with new technologies in data science and AI