İpek Öztaş

MSc Student in Computer Science
Bilkent University, Ankara, Turkey

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GitHub Profile
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Education

•M.Sc. in Computer Science, Bilkent University *2024-2026*
Ongoing CGPA: 4.00/4.00

- Under the supervision of Assistant Professor Ayşegül Dündar
- Member of **Generative Deep Learning Research Lab**
- Awarded **Department Scholarship** at the time of enrollment
- Research focus: 3D Generative Models

•B.Sc. in Computer Science, Bilkent University *2020-2024*
Graduate

- Full Scholarship (Ranked 205^{th} among over 2.5 million students in the university entrance exam)
- Awarded with the **Data Science and Engineering Certificate**
- High Honour Student
- Coursework: OOP with Java, Data Structures in C++, Database Management, Object Oriented Software Development, Operating Systems, Algorithms, **Machine Learning, Artificial Intelligence, Individual Research Study**, **Cloud Computing**, Computer Networks, **Deep Generative Networks**, Automata Theory and Formal Languages

•Ted Ankara College High School *2016-2020*
Graduate of the Math-Science Program with a ranking of 11^{th} Grade: 97.03

- Full Merit Scholarship (ranked in the top 1% in the high school entrance exam)

Publications

Refereed Conference Proceedings

3D Stylization via Large Reconstruction Model
Authors: İpek Öztaş, **Duygu Ceylan, Ayşegül Dündar**
Conference: The Premier Conference & Exhibition on Computer Graphics & Interactive Techniques **SIGGRAPH 2025** (*in submission*)

Towards Automated Detection of Inline Code Comment Smells
Authors: İpek Öztaş, Eray Tüzün
Conference: International Conference on Evaluation and Assessment in Software Engineering (EASE 2025) (*in submission*)

Experience

•Teaching Assistant, Bilkent University *9/2024-1/2025*
Course assisted: CS464 Introduction to Machine Learning Ankara

•Volunteer Researcher, Cambridge University *7/2024–*
Supervisor: Associate Professor Cengiz Öztireli United Kingdom

- Conducting research on **3D face generation models**, including the FLAME model
- Ongoing project: i2i: Identity to Identity Deep Persona Replication Through Conversational Response, Voice, and Facial Expressions

•Undergraduate Researcher, Bilkent University *8/2023–*
Supervisor: Assistant Professor Dr. Eray Tüzün Ankara

- Conducting research on Machine Learning algorithms for code comment smell detection.
- Implementing and testing various models and algorithms, employing OpenAI's GPT-4.
- Writing academic papers and reports summarizing research findings.
- Actively involved in the peer review process for academic papers and writing formal reviews

•Machine Learning Intern, DataBoss Security & Analytics *7/2023 – 9/2023*
ODTÜ Teknokent, Ankara, Turkey

- Completed a Time-Series Forecasting project, utilizing data analysis and feature engineering techniques. Implemented supervised machine learning models, to forecast based on historical data. Gained skills in **Machine Learning, scikit-learn, numpy, and Python**.
- Experience with tools such as **Git, FastAPI, JWT token authentication, Docker, Dagster, web scraping, Pandas, Plotly, Jupyter Notebook, NumPy, and regression modeling**.

Personal Projects

•Styling with Neural Radiance Fields *Jan 2024–May 2024*

Bilkent University CS485 Deep Generative Networks Term Project

- Tools & technologies used: Python, PyTorch, Colab, NeRF
- Implemented a novel approach to integrating artistic style transfer with Neural Radiance Fields (NeRF) for enhanced 3D scene generation

•Flarum AWS Project *Jan 2024–May 2024*

Bilkent University CS443 Cloud Computing Term Project

- Implemented a forum application utilizing the AWS Services: **Amazon ECS, S3 Bucket, AWS WAF, Amazon RDS, Load Balancers, Lambda, Amazon SNS, Cloud Watch, AWS Rekognition, AWS CloudFront**

•JobTalk: AI Supported Hiring Evaluation App *Sep 2023–May 2024*

Senior Design Project

- Tools & technologies used: Flask, PyTorch, Whisper
- Developed a cloud-based web application to assess candidates' proficiency across various domains, encompassing sentiment analysis, self-expression, and communication abilities. Employed an AI model to facilitate an impartial evaluation process.

•AI Algorithms for 2048 Game *Sep-Dec 2023*

Best Project for Bilkent University CS461 Artificial Intelligence

- Tools & technologies used: Python, PyTorch, Gymnasium
- Developed and tested cutting-edge algorithms (Reinforcement Learning, Deep Q-Network, and Monte Carlo Tree Search) tailored for the 2048 tile-matching game. Chosen as the best project.

•Dog Breed Classifier *Sep-Dec 2023*

Bilkent University CS464 Machine Learning Term Project

- Tools & technologies used: Python, PyTorch, Keras
- Performed exploratory data analysis on the Stanford Dogs Dataset. Potentially augmented the dataset through feature engineering to optimize model training. Implemented a custom CNN and evaluated its performance against ResNet and EfficientNetV2.

Technical Skills and Interests

Programming Languages: Python, Java, JavaScript, C/C++
Developer Tools: Docker, Latex, Git, GitHub
Cloud/Databases: AWS, MySQL, PostgreSQL
Machine Learning Libraries: Keras, PyTorch, TensorFlow, Scikit-Learn, Pandas, Numpy, Matplotlib, Seaborn, Plotly
Areas of Interest: Software Engineering, Machine Learning, Data Science, Artificial Intelligence, Generative AI, Cloud
Languages: English (Highly proficient), German (Intermediate)

Positions of Responsibility

•Volunteer, TDP Günköy Project, Bilkent University *2022-2023*

•Delegate, Model United Nations Club *2018-2019*

Achievements

•The Scientific and Technological Research Council of Türkiye (TUBITAK) BIDEB Scholarship *2025*

•Data Science and Engineering Certificate, Bilkent University *2024*

•IELTS Academic Overall Band Score: 8 *2024*

•ÖSYM Foreign Language Examination Ranked 34^{th} among 2.5 million candidates *2021*

•National University Entrance Exam Ranked 205^{th} among 2.5 million candidates *2020*

•Goethe-Institut Examination Overall Band Score: B1 *2019*

•Model United Nations Club Delegate in Eurosima (METU) and Munbu (Bilkent University) *2018-2019*

•TÜBİTAK High School Science Fair Presented a term project in the Regional Science Fair *2019*

•Stanford CS Bridge Program, Koç University *2019*

•Summer Research Program, Koç University *2018*