CENGIZ OZEL

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EDUCATION

Georgia Institute of Technology, Atlanta, GA — Aug 2023 - Present
Master of Science in Computer Science, Specialization in Machine Learning

University of Rochester, Rochester, NY — Aug 2018 - Aug 2022
Bachelor of Science in Computer Science

SKILLS

Languages: Fluent in English and Turkish
Programming Languages: Python, Java, C, C#, C++, MATLAB, R, JavaScript, Swift, SQL
Machine Learning: Linear/Logistic Regression, Neural Networks, Transformers, PyTorch
OS and Other: Bash Shell Scripting, Microsoft Windows, MacOS, Linux/Unix, Android, iOS
Courses: Artificial Intelligence, Data Mining, Web Programming, Mobile App Development, Design and Analysis of Efficient Algorithms, Linear Algebra, Computational Introduction to Statistics
Cloud Technologies: Google Cloud Platform (GCP), Amazon Web Services (AWS), Microsoft Azure

EXPERIENCE

University of Rochester, Rochester, NY — Jun 2022 - Present
Research Assistant at the Rochester Human-Computer Interaction Lab

- Collaborated with diverse teams across multiple projects to adapt to various responsibilities, which resulted in successful project completion and strong professional relationships.
- Mentored undergraduate research assistants and provided guidance on computer vision methodologies to encourage their professional growth and project contributions.

University of Rochester, Rochester, NY — Sep 2020 - May 2022
Teacher Assistant

- Held bi-weekly Java and MATLAB lab sessions to strengthen student comprehension with hands-on guidance and professor collaboration for course refinement and progress monitoring.
- Enhanced learning environment and course performance by grading labs, projects, and presentations with detailed feedback, improving course satisfaction and student mastery.

RESEARCH PROJECTS

Hi5 Synthetic Hand Dataset for Pose Estimation — Jun 2022 - Present
Creating a computer vision pipeline using Unity for synthetic hand image annotation, aimed at pose estimation. I undertook a literature survey to determine optimal parameters for the dataset, ensuring equal representation within it. I implemented data augmentation and visualization techniques using OpenCV and did the model training. Our pipeline accelerates dataset generation, saving time and costs, with our trained model approaching the performance of state-of-the-art models in the field.

Standardized Online Patient for Healthcare Interaction Education — Sep 2022 - Present
SOPHIE is an accessible chatbot, powered by LLMs and high-fidelity human avatars, for medical students to practice end-of-life conversations. The project is based on a significant study conducted at the University of Rochester Medical Center. I created a webpage that assesses users' communication skills and optimized the post-conversation feedback system to improve student performance.

PUBLICATIONS

SAPIEN: Affective Virtual Agents Powered by Large Language Models. Masum Hasan, **Cengiz Ozel,** Sammy Potter, Ehsan Hoque, **ACIIW 2023**