Haseeb Ali Khan

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Summary

Innovative and detail-oriented researcher specializing in Augmented Reality (AR), Virtual Reality (VR), and Artificial Intelligence (AI). Experienced in leveraging cutting-edge machine learning models and immersive technologies to solve real-world problems. Motivated to contribute innovative solutions and further develop expertise through impactful research.

Education

SEP 2022-
AUG 2024

Master's
Sejong University, Seoul, South Korea
Department of Software
Thesis: Enhancing Mixed Reality Accessibility for Color-Vision Impaired Users

SEP 2015 -
AUG 2019

B.Sc.
Comsats University Islamabad, Pakistan
Department of Electrical and Computer Engineering
Thesis: Scenes Visualization in Virtual Reality

Research Experience

JUL 2024 –
DEC 2024

Postgraduate Researcher
Mixed Reality & Interaction Laboratory (MR&I), Sejong University, Seoul, South Korea

- Development of a 3D desktop application (KoCo App) for foreigners residing in Korea.
- Designed and trained a CNN-based facial emotion recognition model integrated into a 3D desktop application.
- Development of the API for the CNN model.

SEP 2022 –
SEP 2023

Research Collaborations
Mixed Reality & Interaction Laboratory (MR&I), Sejong University, Seoul, South Korea

- Collaborated on a Mixed Reality-based Color Blind Assistant as part of the ICCTARVR project, in partnership with ETH Zürich.
- Worked on Korean language learning 3D application project with Korean Researchers.

SEP 2022 –
JUL 2024

Research Assistant
Mixed Reality & Interaction Laboratory (MR&I), Sejong University, Seoul, South Korea

- Development and presentation of AR/VR application for Color Blind people to assist them in performing tasks and identifying objects with different colors efficiently in immersive environment.
- Development and presentation of Virtual Doctor assistant application in VR.
- Developed and presented a style transfer-based VR video experience for emotion induction.

Awards & Honors

SEP 2022 | 100% Study Scholarship
Sejong University, Seoul, South Korea, for Master's Degree

Technical Skills

- **Unity:** Development of AR/VR applications for mobile and desktops.
- **Programming Languages:** C#, Python.
- **Artificial Intelligence:** Model training, neural networks, emotion recognition, AR/VR integration.
- **Data Visualization:** Proficient in LaTeX, and Microsoft PowerPoint.

Areas of Interest

1. **Mixed Reality:** Human-Computer Interaction, AI integration, AR/VR applications.
2. **Machine Learning:** Supervised/Unsupervised Learning, Reinforcement Learning, Model Optimization.
3. **Deep Learning:** CNNs, RNNs, ANNs, Transfer Learning, Pretrained Models (Keras, TensorFlow), Computer Vision.

Symposiums

1. Presentation in the ICCTARVR (Intelligent Content Creation Tools for Augmented and Virtual Reality) 2023 Workshop at Sejong University, South Korea.
2. Presented our style transfer project at the world IT show at Coex 2023.
3. Presented our Virtual Doctor Project at the world IT show at Coex 2024.
4. Attended ITRC (Information Technology Research Center) workshop at Sejong University.
5. Attended and presented a poster in the Korean Society for Next Generation Computing 2023 Spring Conference.

Languages

English – Fluent
Urdu – Fluent
Pashto – native speaker