HASNAIN ABDULLAH

Curriculum Vitae

Qualifications

2022-25 **MS (Computer Science)**, *COMSATS University Islamabad* , Islamabad 44000, Pakistan,
.
- From Sep. 2022 to Jan. 2025

2017-21 **BS (Computer Science)**, *COMSATS University Islamabad Abbottabad Campus* , Abbottabad 22020, Pakistan,
.
- From Sep. 2017 to Aug. 2021

MS Thesis

Title *Enhanced Visual Sentiment Analysis Using Hierarchical Emotion Classification*

Abstract Visual Sentiment Analysis (VSA) helps interpret emotions in images, but many models struggle to capture the full context, like background and actions. Most research focuses on basic or binary emotions, making it hard to detect subtle feelings. This study improves VSA by expanding sentiment classification from two to six emotions using the extended AMK dataset. It includes three positive and three negative emotions. The approach uses a pre-trained VGG16 model with a dual attention mechanism to extract detailed features. Results show higher accuracy, precision, and F1 scores than existing models. This framework offers a strong and scalable solution for advanced VSA. It can be applied in social media analytics, marketing, and human-computer interaction.

Supervisor Dr. Shaneela Naz

BS Final Year Project

Title *Interactive Game to Learn Traffic Rules(Android base)*

Abstract This interactive game is designed to teach traffic rules effectively by simulating real-world road conditions. It utilizes road maps of commonly used routes, such as the GT Road and Motorway, to ensure users learn the correct application of traffic regulations. The game targets multiple audiences, including new learners, routine drivers, and individuals unable to attend physical training courses. By integrating engaging tutorials and challenges, it enhances learning efficiency.

Supervisor Dr. Fiaz Gul Khan

Publications

Journals

[1] Hasnain Abdullah,Sheneela Naz, et al., 'Hierarchical Visual Sentiment Analysis Using Dual Attention-Enhanced VGG16 for Enhanced Emotion Classification, (Submitted), International Journal of intelligent Systems (Impact Factor= 3.5, 2025.

Skills

Intermediate Python, C++

Experience

Position **Lecturer**

Alhamd Islamic University Islamabad(AIU), Islamabad, Islamabad 44000, Pakistan

- From May. 2025 to till date

Responsibilities Teaching, providing guidance and mentorship to students.

Position **Lecturer**

Al-Fateh Institute of Health Science (AFIHS), Islamabad, Islamabad 44000, Pakistan

- From August. 2023 to 30 April 2025

Responsibilities Teaching, providing guidance and mentorship to students.

Position **Research Associate**

Communication over Sensors (ComSens) Research Lab, Department of Computer Science, COMSATS University Islamabad, Islamabad 44000, Pakistan

- From Sept. 2023 to Jan. 2025

Responsibilities Provided guidance and mentorship to junior researchers, offering support for their research projects.

Position **Internee**

Comsats university Islamabad Abbottabad Campus, Pakistan

- From March. 2021 to July .2021

Responsibilities Provided guidance and mentorship to junior students, offering support for their final year project.

Achievements

2014-2016 **Punjab Educational Endowment Fund (PEEF) Intermediate level Scholarship**

2017-2021 **Prime Minister laptop scheme Bachelor Level Scholarship**

For BS Computer Science

References

Assistant **Dr. Sheneela Naz**

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Associate **Dr. Mariam Akbar**

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