

# Mr. Adnan Hameed

Department of Computer Science and Technology, Bannu, Pakistan  
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## PROFESSIONAL SUMMARY

I am a dedicated and experienced AI developer with a motivated attitude, aiming to leverage my diverse skills and expertise in artificial intelligence, machine learning, and deep learning to drive innovation and support the mission and goals of the organization I join. A proven track record of delivering impactful solutions, meeting deadlines, and collaborating effectively as a multidisciplinary team player enables me to work seamlessly with researchers, engineers, and industry leaders.

**Research Interests:** Artificial Intelligence | Machine Learning | Deep Learning | Computer Vision | Model Optimization | AI-Powered Applications

## EDUCATIONAL HISTORY

**University of Science & Technology Bannu** 02/09/2022 – 09/01/2025 Bannu, Pakistan

- **MS in Computer Science** Final CGPA 3.41/4.0

**Thesis:** A novel approach based on transfer learning for the accurate identification of early symptoms of eye disease.

**Thesis Summary:** The main goal of our research was to develop a system for accurately identifying different types of conjunctivitis using advanced deep learning techniques. The focus was on four types: viral, bacterial, allergic, and Giant Papillary conjunctivitis. We trained seven transfer learning models and found DenseNet-121 to be the most effective. The model was trained on 3208 images across four classes, including healthy eyes, and achieved 96.50% accuracy. This system can improve diagnosis and treatment, benefiting patient care and future research.

**University of Science & Technology Bannu** 31/08/2016 – 19/06/2019 Bannu, Pakistan

- **Bachelor's in Computer Science**

**Thesis:** Weapon and Fire Detection using Deep Neural Networks.

**Thesis Summary:** The main idea of our project was to create a system that monitors surveillance of an area and identification alerts in case a fire or gun is detected. The algorithm we proposed is the YOLO algorithm implemented using OpenCV. Moreover, we have used an IP camera for capturing the video/images of the environment.

**Khyber Pakhtunkhwa Board of Technical Education** 2022 – 2023 Bannu, Pakistan

- **Diploma in Information Technology**

## PROFESSIONAL EXPERIENCE

- **Ai Developer at TECHOBIX Software House** 04/02/2023 – Present, Islamabad, Pakistan
  - Development and fine-tuning machine learning and deep learning models, including Generative Adversarial Networks (GANs).
  - Optimization of pre-trained models for enhanced performance, implementing advanced data preprocessing and augmentation techniques, and integrating AI solutions into applications through Flask APIs.
- **Projects Co-Supervision for Junior Students** 2022-2024, University of Science and Technology Bannu
  - Brain Tumor Classification Based on Deep Convolution Neural Networks (CNNs).
  - Plant Disease Detection and Classification using deep CNNs.
  - Bone Fractures Identification in X-ray Images using Deep CNNs.
- **Internee ZEALSOUL Technologies Software House** 07/03/2017 – 21/04/2019 Bannu, KP, Pakistan
  - Android Application Developer and Graphic Designer

## CERTIFICATES AND TRAININGS

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1. Python for Everybody Specialization
2. Deep Learning Applications for Computer Vision
3. Deep Learning with PyTorch: Object Localization
4. Object Localization with TensorFlow
5. Visualizing Filters of a CNN Model using TensorFlow
6. Image Classification with CNNs Model using Keras

## DIGITAL SKILLS

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- AI, GAN, Machine Learning & Deep Learning (TensorFlow, Keras, PyTorch)
- Computer Vision (YoloV 3,5,8,9,11)
- Data Analysis (Pandas, NumPy, Matplotlib)
- Cloud Platforms (AWS, Google Cloud, Microsoft Azure)
- Programming Languages (Python)
- Web Development (Streamlit, Flask, Django)
- Android Studio (XML)

## LANGUAGE SKILLS

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- English (Fluent), Urdu (Fluent), Pashto (Mother Tongue)

## HONOURS AND AWARDS

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- Awarded Need Based Scholarship. 11/04/2018
- Received PM Laptop Scheme. 13/07/2023

## REPRESENTATIVE CONFERENCE AND ARTICLE PUBLICATIONS

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1. **Hameed A et al.**, “Dermatology 2.0: Deploying YOLOv11 for Accurate and Accessible Skin Disease Detection: A Web-Based” Accepted in *International Journal of Imaging Systems and Technology* 2025
2. **Hameed A et al.**, “Enhanced Brain Tumor Diagnosis with EfficientNetB6: Leveraging Transfer Learning and Edge Detection Techniques” *International Journal of Innovations in Science & Technology* 2025  
<https://journal.50sea.com/index.php/IJIST/article/view/922>
3. **Hameed et al.**, “Deep CNN Approach to Early and Accurate Pink Eye Disease Classification” Abstract Presentation in *1st International Conference on Recent Advances in Computing, Ai and Data Science* 2024
4. Ayaz, M., **Hameed, A** et al., “Enhancing Face Mask Detection in Public Places with Improved YOLOv4 Model for Covid-19 Transmission Reduction” *International Journal of Innovations in Science & Technology* 2024  
<https://journal.50sea.com/index.php/IJIST/article/view/712>
5. **Hameed A et al.**, “Enhancing Face Mask Detection in Public Places with Improved YOLOv4 for Covid-19 Transmission Reduction” Abstract Presentation in *1st International Conference on Recent Advances in Computing, Ai and Data Science* 2023

## REFERENCES

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1. **Dr. Said Khalid Shah**, Assistant Professor (Supervisor)  
Coordinator of the MS/PhD Course in Computer Science department of IECS,  
University of Science and Technology Bannu  
Email: [skhalids2000@yahoo.com](mailto:skhalids2000@yahoo.com) Phone (+92) 3459109954
2. **Dr. Salam Ullah**, Assistant Professor  
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