



**Abdulkadir Duran Adan 阿丹**

AI Researcher & Software Engineer



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Wuhan, China

## SUMMARY

An AI researcher with hands-on experience in deep learning and machine learning. Proven ability to design, implement, and deploy scalable AI models for real-world applications. Seeking to contribute to innovative AI projects in a challenging academic and industry role.

## EDUCATION AND TRAINING

**Huazhong University of Science and Technology**

Wuhan, China

Master's in Artificial Intelligence | GPA: 3.7/4.0 | [Website](#)

Sep 2023 – July 2025

**Thesis:** Plant-Agnostic Counting in Somalia Using Vision Transformers

**Jiangnan University**

Wuxi, China

Bachelor in Computer Science | GPA: 3.5/4.0 | [Website](#)

Sep 2019 – Jul 2023

**Thesis:** Heart Disease prediction using Machine learning

**Tsinghua University**

Beijing, China

Innovating Education for the Digital Economy | [Website](#)

Oct 2022 – Nov 2022

**Project:** AI's impact on e-commerce and digital Technologies

## Research Interest

Deep Learning | Computer Vision | Artificial Intelligence | Multi-view Multi-dimensional 3D Technology

## Teaching Interest

Python | Machine Learning | Artificial Intelligence | Web Development | Data Structure and Algorithms | Advanced Mathematics | Discrete Mathematics | Probability & Statistics

## SKILLS

- **Programming Languages:** Python, JavaScript
- **Databases:** PostgreSQL
- **Deep Learning Frameworks:** OpenCV, PyTorch, Numpy, Pandas, Matplotlib
- **Web Development:** Django, HTML5, CSS3, Bootstrap
- **Tools:** Git & GitHub, Google Colab, VS Code

## PROFESSIONAL EXPERIENCE & PROJECTS

Sep 2025 – Present

**Independent Researcher | Wuhan Optical Lab, Huazhong University of Science and Technology**

Co-authoring a research paper, "Multi-Dimensional Multi-view Vision Transformers for Computational Imaging: A Unified Framework for 3D Reconstruction, Depth Estimation," under Professor You Yang, Vice Dean of the School of Electronic Information and Communications.

Sep 2023 – July 2025

**Master's student & Researcher | Huazhong University of Science and Technology**

- Co-authored TasselNetV4, a vision foundation model for cross-species and cross-scene plant counting: A Vision Transformer model for robust, scalable agricultural AI applications.
- Co-authored a Chinese patent
- Created Enhancing Autonomous Cars' Intelligence Using Deep Reinforcement Learning: a method for safely navigating Self-driving cars in highway scenarios using a combination of deep Q Networks and neural networks [Code](#)
- Developed a facial recognition system for automated attendance tracking in educational institutions, using computer vision techniques. [Documentation](#)

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## PUBLICATIONS

### Patent

- [1] **Adan AD**, L. Lu, H. Xu, X. Hu, X. Li, X. Li, and T. Hu, “一种融合种类关键信物计算方法  
和系统,” *Chinese Patent* CN120725894A, Sep. 30, 2025.

### Papers

- [1] Hu X, Li X, Xu J, **Adan AD**, Zhou L, Zhu X, Li Y, Guo W, Liu S, Liu W, Lu H.  
TasselNetV4: A vision foundation model for cross-scene, cross-scale, and cross-species plant  
counting. arXiv preprint arXiv:2509.20857. 2025 Sep 25.

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## HONORS AND AWARDS

### Chinese Government Scholarship

*Huazhong University of Science and Technology* (2023)

### Scientific Research Star [Certificate](#)

*Jiangnan University* (2022)

### Innovation & Entrepreneurship Program Certificate [Certificate](#)

*Tsinghua University* (2022)

### International Student Admissions Ambassador [Certificate](#)

*Jiangnan University* (2021)

### Outstanding Volunteer [Certificate](#)

*Jiangnan University* (2021)

### Gongtiecheng Scholarship [Certificate](#)

*Jiangnan University* (2020)