Baddula Chakravardhan

baddulachakravardhan@gmail.com
+91 94418 68950

ABOUT ME

Ardent Computer Vision and Deep Learning Engineer, with hands-on experience in developing real-time projects. Strongly interested in problem analysis and dedicated to developing efficient AI solutions. Highly focused on the research aspect, with a commitment to advancing knowledge and contributing innovative ideas in the field of computer vision.

SKILLS

Programming Languages: Python, C
Technical Skills: Machine Learning, Deep Learning, Large Language Models, Computer Vision
Frameworks/Libraries: PyTorch, OpenCV, Scikit-learn
Tools: GitHub, Kaggle
Soft Skills: Teamwork, Research Paper Writing
Other: Data Structures & Algorithms, Problem Analysis, Problem-solving

WORK EXPERIENCE

Research Intern
IIITDM Kancheepuram *May 2025 – July 2025*

- Forest Fire Image Classification Using Swin Transformer

RESEARCH WORKS

Forest Fire Image Classification Using Swin Transformer

- In this research work, forest images were classified into three categories i.e., fire, no fire, and smoke by employing the Swin-Tiny Transformer model.
- Trained for 20 epochs with the AdamW optimizer, achieving an accuracy of **99.67%** and an F1-score of **99.67%**, outperforming existing methods.
- A conference paper based on this work was submitted to Computer Vision and Image Processing (CVIP) 2025, IIT Ropar, Punjab, accepted, and successfully presented at the conference in December.

CRICNET: A MobileNetV3-Small based Lightweight Deep Learning Model for Front Pitch View Frame Classification in Cricket

- Proposed CRICNET, a MobileNetV3-Small based model, to classify cricket frames into Front Pitch View (FPV) and Non-FPV.
- Manually annotated 4,248 images consisting of FPV and Non-FPV frames.
- Achieved **99.96%** accuracy and F1-score using a layer-freezing strategy in MobileNetV3-Small.
- Submitted the conference paper based on this work to the conference (Computer Vision and Robotics (CVR) 2026) hosted at National Institute of Technology Goa.

EDUCATION

B.Tech in Computer Science and Engineering (CSE)
Rajiv Gandhi University of Knowledge Technologies, Nuzvid
GPA: 9.35/10
Minor Degree in Machine Learning
Rajiv Gandhi University of Knowledge Technologies, Nuzvid
GPA: 9/10
Pre-University Course (PUC) - MBiPC
Rajiv Gandhi University of Knowledge Technologies, Nuzvid
GPA: 9.9/10
Secondary School Certificate (SSC)
AP Model School, Pagidyala
GPA: 10/10

CERTIFICATIONS AND ACHIEVEMENTS

- Secured **All India Rank 2928** in GATE 2025 (Computer Science).
- Earned **Elite + Silver Certificate** from NPTEL for Deep Learning.
- Earned **Elite + Silver Certificate** from NPTEL for Mathematics for Machine Learning.