BALA VIGNESH C S

MACHINE LEARNING ENTHUSIAST

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SUMMARY

Highly passionate research engineer with strong research, product building and deploying models to production along with innovation skills and ability to solve deep learning & machine learning problems. Zealous towards AI research and open-source community contribution.

EXPERIENCE

12/2016 - present
COFORGE BUSINESS PROCESS SOLUTIONS - BANGALORE
Senior Team Member

10/2015 - 12/2016
STRING INFORMATION SERVICES PRIVATE LIMITED - CHENNAI
Process Associate

EDUCATION

Expected graduation 2025
UNIVERSITY OF MADRAS
Master of Computer Applications

2011 - 2014
HINDUSTAN UNIVERSITY **CGPA 6.39**
Bachelor of Computer Applications

CERTIFICATES

2022
MACHINE LEARNING SPECIALIZATION
Coursera

SKILLS

- Teamwork and Collaboration
- Attention to Detail
- Critical Thinking
- Good communication skill
- Able to work in a team
- Great problem solving skill

FIND ME ONLINE

bala-vigneshcs

bax25

TECH SKILLS

- TensorFlow
- PyTorch
- NumPy, Scikit Learn, Pandas
- Natural Language Processing
- Computer Vision
- Explanatory Analysis
- Jupyter Notebook
- GitHub
- Python, Bash, C++
- MATLAB
- Docker
- Linux

PROJECTS

DIGIT RECOGNIZER (MNIST)

Developed a CNN with Keras/TensorFlow to classify handwritten digits, achieving 99.2% accuracy on MNIST.

TRAFFIC SIGN DETECTION

Trained YOLOv5 on German Traffic Sign dataset with data augmentation.
Enabled real-time detection through a Streamlit web app.

FACE MASK DETECTION SYSTEM

Built a MobileNetV2-based system to detect mask usage, with 98.5% accuracy.

NAMED ENTITY RECOGNITION PIPELINE

Fine-tuned spaCy's NER model on legal documents, reaching an F1 score of 0.87.

IMAGE CAPTION GENERATOR

Implemented an encoder-decoder (CNN+RNN) model to generate image captions

SENTIMENT ANALYSIS ON MOVIE REVIEWS

Fine-tuned BERT on IMDB reviews, achieving 92% accuracy for binary sentiment classification.