Aryan Sharma

📍 Bangalore, India
📧 aryan.sharma@example.com | 📞 +91-9876543210
🌐 github.com/aryansharma | linkedin.com/in/aryansharma

🎓 Education

M.Tech in Artificial Intelligence
Indian Institute of Technology (IIT) Bombay
2023 – Present

- GPA: 9.1/10
- Relevant Courses: Deep Learning, Signal Processing, Multimodal AI, Computer Vision, Advanced NLP

B.Tech in Computer Science
NIT Trichy
2019 – 2023

- CGPA: 8.9/10

🧠 Technical Skills

- **Programming Languages**: Python, C++, C
- **Frameworks/Libraries**: PyTorch, Scikit-learn, TensorFlow, OpenCV, Scikit-image, HuggingFace
- **Tools**: Git, Linux, MATLAB, Jupyter, Docker
- **ML Areas**: Multimodal AI, Deep Learning, Speech/Text/Image Processing, Transformer Models
- **Mathematics**: Probability, Linear Algebra, Optimization, Statistical Modeling

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🧪 Projects

1. Multimodal Sentiment Analyzer (NLP + Vision + Audio)

- Built a multimodal model using PyTorch to classify sentiment using synchronized text, facial expressions, and tone of voice
- Dataset: CMU-MOSEI
- Achieved F1-score of **84.2%** using transformer fusion model

2. Medical Imaging Classifier using Vision Transformers

- Built a system using Scikit-Image and PyTorch to classify retinal scans for diabetic retinopathy detection

- Applied data augmentation, fine-tuning and model interpretability methods

3. Voice-Driven Assistant with NLP and Signal Analysis

- Developed a speech-to-intent model using wav2vec2 + fine-tuned BERT
- Used PyTorch and HuggingFace Transformers

🏆 Achievements

- Top 3% in **Kaggle Multimodal Challenge 2024**
- Published paper in **IEEE International Conference on Multimedia and Expo (ICME) 2024**: *"Fusion of Speech and Visual Embeddings for Emotion Recognition"*
- Cleared GATE 2023 with AIR 67 in CS

👨‍🔬 Research Interests

- Multimodal Deep Learning
- Cross-modal Alignment and Representation Learning
- Audio-visual and Textual Signal Fusion
- Low-resource Model Optimization

🛠️ Experience

AI Research Intern – TCS Research (Remote)
Jan 2024 – May 2024

- Developed audio-visual speaker verification system using attention-based CNN-RNN models
- Benchmarked performance with baseline systems using PyTorch

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💡 Soft Skills

- Excellent collaboration and written communication
- Agile learner, eager to work with diverse teams
- Strong documentation and presentation skills

📜 Declaration

I hereby declare that the above information is true to the best of my knowledge.