

HITESH GOYAL

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EDUCATION

Master of Science Artificial Intelligence	Expected Jul 2026
Nanyang Technological University, Singapore	3.63 CGPA
College of Computing and Data Science	
Bachelor of Technology in CSE with Specialisation in AI and ML	Jul 2023
Vellore Institute of Technology, Chennai Campus	9.06 CGPA
School of Computing Sciences and Engineering	

TECHNICAL SKILLS

Programming: Python, JavaScript, C++, Java
AI/ML Frameworks: TensorFlow, PyTorch, Scikit-Learn, Pandas
Specialized Skills: Deep Learning, Computer Vision, NLP, Audio Processing
Version Control: Git, GitHub
Deployment and Production: Docker, Binarization, Quantization, Pipeline Development

WORK EXPERIENCE

Tata Elxsi, Bangalore, India: Engineer, Artificial Intelligence	Jul 2023 - Jun 2024
<ul style="list-style-type: none">Optimized content moderation pipeline, enhancing multi-model AI processing speed through parallel computing.Implemented context-based advertisement placement in live broadcasts, at a speed of over 30 FPS.Developed industrial defect segmentation model with 80% accuracy using 30,000-point custom dataset.Improved project outcomes: 10x object tracking speed, 20% content moderation accuracy enhancement.	
Corporate Gurukul, NUS, Singapore: Global Academic Intern (Certificate)	Dec 2022 - Jan 2023
<ul style="list-style-type: none">Secured an A+ grade in a rigorous Deep Learning boot-camp at the National University of Singapore.Guided a six-person team in developing helmet, vest detection models to ensure construction worker safety.Attained an accuracy comparable to 65% despite resource constraints in under a week.	
Samsung PRISM, Bangalore, India (Remote): R&D Intern (Certificate)	Nov 2021 - Oct 2022
<ul style="list-style-type: none">Led a team of five in creating AI-powered Frame Rate Conversion models to enhance smartphone video quality.Achieved a Peak Signal-to-Noise Ratio (PSNR) of 27.9 on video resolution of 448x256 under resource constraints.Doubled the expected inference speed surpassing the required resolution by over 1.5x.	

PROJECTS

Fuzzy Hybrid Model for Stock Trading (Link to Project):	Sep 2024 - Nov 2024
<ul style="list-style-type: none">Created efficient feature engineering pipelines, improving loading and training speed by 10x.Performed data and domain analysis to reduce the number of input features by 5x, enhancing model performance by about 20%.Created relevant evaluation systems and algorithms to test the models fairly and effectively.	
Reconstructed Phase Spaces in Speech Recognition (Link to Capstone Thesis):	Sep 2022 - Apr 2023
<ul style="list-style-type: none">Utilised RPS feature extraction to obtain an impressive accuracy of 87% to classify 125 consonant-vowel pairs.Enhanced performance by combining RPS and MFCC features, resulting in an accuracy of 92%.Explored the application of combined RPS and MFCC features for end-to-end speech recognition, reducing the Word Error Rate to under 20% without using a language model.	
Fake News Detection App (Link to project):	Jan 2022 - May 2022
<ul style="list-style-type: none">Built and trained a robust fake news detection model using GloVe word embeddings and Artificial Neural Networks.Secured a significant test accuracy of 86% in the identification of fake news articles.	