



NUEMON KUMAR K R
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CAREER OBJECTIVE

A motivated and detail-oriented Artificial Intelligence and Machine Learning student with a solid foundation in machine learning algorithms.s. Passionate about applying machine learning techniques to build intelligent and scalable solutions that drive innovation

EDUCATION

K.Ramkrishnan College of Technology B.Tech · Artificial Intelligence and Machine Learning	2022 - 2026 CGPA - 7.02/10
St.Andrew’s Matriculation Higher Secondary School ClassXII-STATEBOARD(TAMILNADU) · TAMILNADU	2021 - 2022 Percentage - 72.33%
St.Andrew’s Matriculation Higher Secondary School ClassX-MATRICULATION · TAMILNADU	2019 - 2022 Percentage - 90.8%

PROJECTS

Go-with-the-Flow: Motion-Controllable Video Diffusion Models Using Real-Time Warped Noise	Nov 2024 - Mar 2025 Gen AI
<ul style="list-style-type: none">Developed a novel video diffusion framework enabling fine-grained motion control with high temporal consistency.Introduced a real-time noise warping mechanism using optical flow fields to guide motion in video generation.Designed five core modules: Training, Noise Warping, Diffusion, Motion Control, and Execution, ensuring modularity and scalability.Enhanced video quality by reducing flickering, motion drift, and temporal inconsistencies in generative outputs.	
Hand Written Digit Recognition Using Webcam	Feb 2024 - May 2025 Machine Learning
<ul style="list-style-type: none">Built a real-time handwritten digit recognition system using Python, TensorFlow, Keras, and OpenCV.Designed and trained a CNN on the MNIST dataset, achieving high accuracy in classifying digits (0–9).Implemented image preprocessing and augmentation to handle noise, lighting, and handwriting variations.Integrated the model with a webcam interface for live digit detection and prediction.	

CERTIFICATIONS

Applied Generative AI Simplilearn	Mar 2025
Fundamentals Of Microsoft Azure Global Certification	Aug 2024

SKILLS

Programming Languages: Python, Java

Technical Skills: Machinelearning, Data Analysis

Areas of Interest: Cloud & DevOps for AI

Languages and Frameworks: Pandas, Numpy, Scikit-learn, Tensorflow, Keras, Matplotlib, Seaborn, OpenCV

Database: MySQL

Computer Skills: MS Excel, MS Office

Soft Skills: Analytical Reasoning, Workflow Optimization, Team Colaboration

LANGUAGES

- English [Professional Working Proficiency]
- Tamil [Native Proficiency]