

Nishant R

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PROFESSIONAL SUMMARY

A results-driven Computer Science student specializing in AI and Machine Learning. Proficient in Python, Computer Vision, and data-driven problem solving. Experienced in backend development, real-time systems, and gamified learning projects. Adept at working collaboratively in fast-paced, technical environments.

EDUCATION

RNS Institute of Technology (RNSIT), Bangalore B.E in Computer Science (AI/ML), CGPA: 8.65	Dec 2021 – May 2025
Sri Sri RaviShankar Vidya Mandir, Bangalore Grade 12: 80%	April 2020 – July 2021
Sri Sri RaviShankar Vidya Mandir, Bangalore Grade 10: 87%	April 2018 – March 2019

EXPERIENCE

SuperHuge Studios, Bangalore Project Intern: Developer	Nov 2024 – May 2025
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- **Shootopia (OpenCV, UDP, Tkinter):**
 - Developed a real-time shooting game backend using OpenCV to detect IR laser positions and translate them into normalized coordinates.
 - Calibrated screen-to-camera perspective for optimal accuracy; integrated with Unity frontend via UDP sockets.
- **Solitaire Candy World (K-Means Clustering, Cubic Spline):**
 - Generated card position patterns using clustering and interpolation for scalable level designs.
 - Built a GUI to dynamically generate and save patterns based on user-defined card counts.

PROJECTS

- **ChatBot (Python, Gemini API)**[↗] – Designed a multipurpose chatbot that summarizes PDFs, processes images, and responds to queries using Python-based interfaces.
- **Gamified Sign Language Learning**[↗] – Built a 3D interactive learning environment using Three.js + Rapier and gesture recognition with Keras. Integrated real-time ASL gesture input via UDP.
- **Music Generation (LSTM)**[↗] – Trained LSTM models on musical compositions to auto-generate music based on learned temporal patterns.

SKILLS

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| • Languages: Python, Java, SQL | • Version Control: GitHub |
| • Frameworks: OpenCV, Keras, Tkinter | • AI/ML: LSTM, K-Means, Spline Interpolation |
| • Tools: Git, VSCode, MySQL, MS Office | • Others: UDP Sockets, GUI Programming |

CERTIFICATIONS

- Machine Learning Specialization (DeepLearning.AI)
- Complete Python Bootcamp
- Data Structures using Java
- Python Certification (HackerRank)

LANGUAGES KNOWN

- English, Hindi, Kannada, Tamil, Malayalam, Tulu