Sandeep U

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EDUCATION

Program	University	Institute	Year	CPGA/%
Graduation	NIT Puducherry	NIT Puducherry	2022-2026	7.97 (Up to 6th Sem)
Intermediate	CBSE	Aditya Vidyashram Gurugram	2022	85.80%
Matriculation	CBSE	Amrita Vidyalayam	2020	91.4%

INTERNSHIP

VidyaInternaHub　　　　　　　　　　　　　　　　　　　　　May'25 – Jul' 25
Backend Developer Intern　　　　　　　　　　　　　　　　　　*Remote, India*
- Worked on CRM System Backend API to improve server side more stable and reduce 70% server response time and was able to handle around 75000 requests.

National Institute of Technology, Puducherry　　　　　　　　　　Sep'23 – Dec'23
Objective: Simulation of cryptocurrency using Blockchain　　　　Team members :3
Research Intern | Git Link　　　　　　　　　　　　　　　　　　*Karaikal, India*
- Built a Python-based cryptocurrency wallet using blockchain integration with PyQt5 for GUI, featuring account creation, balance viewing, and transaction capabilities.

PROJECTS

Sicko Shoe Store -Next.js E-Commerce Platform | *NextJs*　　　　　　　Oct-2025
- Built a highly responsive and SEO-friendly e-commerce platform using Next.js for optimized performance and Tailwind CSS for a sleek, modern design. Designed dynamic product listings with interactive filtering and sorting options to enhance product discovery. Leveraged Next.js features like server-side rendering (SSR) for improved page load speed and search engine visibility.

APK Malware Detection and Family Prediction Using CNN-LSTM and RF Classifiers | *Python*　　Aug 2024 – Nov 2024
- Built a DL model for classifying APK malware and its belonging with various models and classifiers.

Student-GPT | *React, FastApi, Python*　　　　　　　　　　　July 2024 – Aug 2024
- Created a Transformer model for Generating answers for the given queries in the DSA field.
- Implemented a website for answering questions.

PUBLICATIONS

APK Malware Detection and Family Prediction Using CNN-LSTM and RF Classifiers | *IEEE*　　Jul 2025
- Proposed a CNN-LSTM model reshapes 215 features to 43×5. CNN extracts spatial features, LSTM captures sequential patterns which is followed by dropout & dense layers for binary output.
- Achieved Around 99.98% F1-score performing better than other available models.

Multi-Head Attention Transformer for Text2Text Translation | *ScienceDirect*　　May 2025
- Proposed a Transformer model for Translation of English to Tamil which showed 40% improvement in Accuracy.

TECHNICAL PROFECIENCY

- **Programming Languages**　: C, C++, Python, Html, CSS, JavaScript
- **Software**　: IntelliJ IDEA, Git, MySQL, MongoDB.
- **Frameworks**　: Next, Node, Angular, Express, PyTorch.