Sandeep U

sandeeputhayakumar@gmail.com | (5) Sandeep Uthayakumar LinkedIn | Portfolio | github.com/Sandeep2k5

EDUCATION

Program	University	Institute	Year	CPGA/%
Graduation	NIT Puducherry	NIT Puducherry	2022-2026	7.94 (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| *Next, Express,Node, MongoDB* Ongoing

- 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) and static site generation (SSG) 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.