SANDEEP UTHAYAKUMAR

B. TECH

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Portfolio

Education Background

2022 – 2026
· Bachelor of Technology

· Discipline: Computer Science

· National Institute of Technology, Puducherry.

· CGPA – 7.86/10

2020–2022
· Grade 12, CBSE

· Aditya Vidyashram Gurugram, India.

· Score – 85.8 %

2015 – 2020
· Grade 10, CBSE

· Amrita Vidyalayam, India.

· Score – 91.4%

About me

I'm Sandeep, a passionate software developer with a strong foundation in Java, Python and in MERN Stack. My journey through internships and personal projects has developed my ability to build scalable applications, design efficient systems, and contribute to the entire software development lifecycle. I'm always eager to learn new technologies and solve complex problems.

Projects

- **Sicko Shoe Store – Next.js E-Commerce Platform**

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. Focused on an engaging UI/UX with smooth transitions, animations, and an efficient navigation system for a seamless shopping journey.

- **Transformer-Based Translator: Efficient Language Translation with Neural Networks**

Course Project | *Instructor: Asst. Prof. Dr. Kumaran. P, CSE Dept., NIT Puducherry*
The Transformer architecture stands out as an ideal candidate for powering chatbots due to its exceptional scalability, minimal memory requirements, rapid processing speed, robust durability, and remarkable data retention capabilities. Our focus is on refining a specialized multi-headed transformer design tailored for enhancing chatbot functionality and performance.

- **Simulation of cryptocurrency using Blockchain**

Research Intern | *Guide: Asst. Prof Dr. Sanjay Bankapur, CSE Dept., NIT Puducherry*
Built a Python-based cryptocurrency wallet using blockchain integration with PyQt5 for GUI, featuring account creation, balance viewing, and transaction capabilities

Technical PROFICIENCY

Languages:

- C, Java, Python, Html, CSS, JavaScript, TypeScript.

Software's:

- IntelliJ IDEA, Git, MySQL, MongoDB.

Frameworks:

- Next, React, Express, NodeJS, TensorFlow, PyTorch.

Leadership Roles

- Executive member for the Association of Computer Science Engineers (ACE).
- Event Coordinator of NITPY Tech Fest – Gyanith 24.
- Web development Member of LEAP.

Certificates

- **Blockchain Workshop**| Ace
- **Data Science Using Python** | Scaler
- **SQL certificate** | Hacker Rank

EXTRACURRICULAR & HOBBIES

Won in elocution and debate competitions.

Won in school hackathons.

Hobbies: Playing Badminton, Video editing, Reading books.

Links

- GitHub – Sandeep2k5 (Sandeep U) (github.com)
- Leetcode –Sandeep2k5 – LeetCode Profile