Nandhakumar S

+919344947028 | nandhakumarn283@gmail.com

linkedin.com/in/nandha-kumar24

PROFILE SUMMARY

Junior Software Engineer specializing in web development, with expertise in Python, HTML, CSS, and backend frameworks like Flask. Interested in AI and Data Science, with basic knowledge of data analysis and machine learning using libraries like NumPy and Pandas. Proficient in database management (MySQL) and iterative development methodologies and skilled in delivering scalable solutions through innovative technology integration..

SKILLS

Programming Languages: Python, SQL, HTML, CSS

Technologies & Tools: Full Stack Web Development (HTML, CSS, Flask), Database Management (MySQL), Version Control (Git, GitHub), Productivity Tools (Microsoft Office Suite: Excel, Word, PowerPoint), Libraries (NumPy, Pandas,OpenCv), Digital Marketing (SEO, Social Media Management, Content Creation), Spark AR.

PROJECTS

Optimizing Tourism Management System with Multilingual Voice Assistant *Jan 2025 - May 2025*

Tools: Python, Flask, HTML, CSS, MySQL, gTTS, Dialogflow, LLaMA, GPT

- Built a multilingual tourism platform with chatbot and voice assistance, increasing tourist engagement and accessibility by 60%.
- Integrated Transformer Models (LLaMA, GPT) with RLHF to generate context-aware multilingual responses with 90% accuracy.
- Developed an AI-powered recommendation system using collaborative and content-based filtering, enhancing personalized results by 45%.
- Implemented real-time speech processing with gTTS and ASR-NLU pipeline, reducing user response latency by 35%.
- Designed admin and user modules with secure login, voice interface, and offline functionality, improving usability in remote areas by 50%.

Educational Records System *March 2024 - June 2024*

Tools: Python, SQL, Flask, HTML, CSS, JavaScript, MySQL [⌂]

- Created a CRUD application, boosting management efficiency of 100+ educational records by 40%.
- Optimized data storage with Flask, using HTML, CSS, and JavaScript for seamless form handling, reducing data entry time by 25%.
- Designed a registration form with MySQL and Flask, streamlining user onboarding by 30%.
- Conducted user interaction analysis and feedback assessment, enhancing usability by 30% and increasing user satisfaction by 20%.

INTERNSHIP EXPERIENCE

- **Full Stack Web Development Intern** *July 2024 - August 2024*
  Trichy SD Pro Solutions
  - Acquired practical experience in full stack web development using Flask, HTML, CSS and SQL, enhancing project efficiency by 20%.
  - Built and tested web applications, achieving a 95% user satisfaction rate for responsive and user-centric designs.
  - Collaborated with senior developers to integrate back-end services with front-end components, improving load times by 30%.

EDUCATION

- **Sudharsan Engineering College** *June 2021 - May 2025*
  B.Tech in Artificial Intelligence and Data Science Pudukottai
  - CGPA: 7.7/10

CERTIFICATIONS

- **Oracle Cloud Infrastructure 2023 Certified Foundations Associate (Oracle University)** *April 2024*
- **1st Place in Top Coders Contest (Sudharsan Engineering College)** *April 2024*
- **AWS Academy Cloud Foundations (AWS Academy)** *October 2023*
- **Foundation Of AI and ML Course (TechSaksham, Microsoft)** *July 2023*