

YOGESH SANKARANARAYANAN JAYANTHI

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OBJECTIVE

Machine Learning Engineer skilled in Deep Learning, NLP, web, and app development. A proactive leader and multitasker passionate about delivering impactful projects in Healthcare, Education, and Sustainability. Dedicated to creating innovative solutions that drive meaningful change and enhance user experiences through technology.

EDUCATION

Bachelor of Technology, Computer Science and Engineering, Expected 2025
SRM Institute of Science and Technology, Ramapuram Current CGPA: 9.58

Relevant Coursework: Data Structures and Algorithms, Object Oriented Design and Programming, Operating Systems, Compiler Design, Discrete Mathematics for Engineers, Data Mining and Analytics

INTERNSHIP

UI/UX Designer Intern, *Cybernaut Edu-Tech LLP*, Chennai, India Sep 2023 - Mar 2024

- Guided junior interns and collaborated with developers to provide UI designs for 3 company products, improving user experience and functionality.
- Tutored 150+ students across 3 batches, and organized a hands-on UI/UX Design workshop with college presidents.

Research Intern, *MIT Square London*, Remote Oct 2023 - Dec 2023

- Collaborated with Dr. Habib Ghanbarpourasl to design an AI-powered self-charging shoe using piezoelectric sensors.
- Contributed to the shoe design that secured a [UK Design Patent \(No. 6369634\)](#) for its self-charging and comfort-enhancing features.

Java Developer Intern, *Shiash Info Solutions Private Limited*, Chennai, India Aug 2022 - Nov 2022

- Developed and optimized back-end functionality using Java SE, Angular, Spring Boot, and SQL.
- Resolved 30+ bugs to enhance system performance and improve application stability by 25

EXPERIENCE

Full Stack Developer (Freelance), *Seed Foundation of PEC*, Chennai, India Dec 2023 - Jan 2024

- Led a team to develop the official SEED Foundation website using React and AWS, following Agile processes and maintaining effective communication throughout the project life cycle.
- Successfully deployed the product, documented the development process, and conducted a knowledge transfer session for students.

Project Team Lead (Part-Time), *Cybernaut Edu-Tech LLP*, Chennai, India May 2022 - Oct 2022

- Led a team of C++ interns to develop a fully functional inventory management system, automating key processes and reducing manual errors by 30
- Ensured successful technical documentation and client implementation of the C++ system.

SKILLS

Technical Skills: MERN, Python, Java, C++, AIML, Deep Learning, Data Science, Git, SQL, Figma

Soft Skills: Leadership, Agile Project Development, Dynamic Problem Solving, Scrum Mastering

Languages: English, Tamil, German, French

PROJECTS

Chronic Wound Analysis: Developed an app for chronic wound analysis in diabetes patients, using U-Net architecture to segment wounds and extract physiological (depth, tissue percentage) and geometrical (size) parameters. The app assesses wound severity and predicts healing time based on research formulas and patient medical history, aiding in timely medical intervention.

Loan Eligibility Checker: Developed a Streamlit application that checks loan eligibility based on personal, financial, and asset details. It features input fields for loan and asset information, document uploads, and eligibility prediction using a pre-trained machine learning model. Integrated LIME to visualize feature importance, helping users understand the factors influencing the prediction.

Video Tutor Assist: Developed the Video Tutor Assist app to enhance online education. It generates titles, notes, and MCQs/descriptive quizzes in Easy, Medium, and Hard modes from video transcriptions and summaries for educators. For students, it provides quiz feedback and a chatbot for instant answers based on video content. The app uses Generative AI to improve teaching and learning efficiency.

PROFESSIONAL ORGANIZATIONS & ACTIVITIES

Class Representative

- Bridged communication between students and faculty, organized events, and fostered collaboration, honing leadership and interpersonal skills.

Code-Chef Club Member

- As a member of the Code-Chef club, organized events like "Demystifying Web 3.0" for my peers, which was extended to other college students at the World Trade Center in Chennai.

Lecturer on App Development Webinar

- At IGNITE'24, I highlighted app development with a focus on an Instagram Clone, demonstrating practical insights into modern application design and functionality

Lecturer on Web Development Webinar

- At IGNITE'23, I delivered an inspiring talk on web application development, focusing on cutting-edge trends and best practices

HONORS

Healthcare Track Prize Winner, *HackFest*, NMAM Institute of Technology, Karnataka Mar 2024

- Led a team to victory in the Health Care Track at HackFest, demonstrating leadership and innovation under pressure in a 36-hour competition.

Runner Up, *CodeQuest Hackathon*, SRM Institute of Science and Technology, Ramapuram Mar 2024

- Secured 2nd place with a career roadmap recommendation system, showcasing creativity in addressing career and education challenges.

Runner Up, *Intellect Submit Paper Presentation*, SRM Institute of Science and Technology, Ramapuram Mar 2024

- Earned second place for presenting the "EMERGENCY" project, aimed at improving transparency and swift action on societal issues.