Kamanuri Tanvi Reddy

🌐 Portfolio 📍 Hyderabad, India 📞 +91 85229 99131 ✉ tanvi0509k@gmail.com in linkedin.com/in/ktanvireddy

EDUCATION

VNR Vignana Jyothi Institute of Engineering & Technology, Hyd, India   2021 - 2025
Computer Science & Engineering (Artificial Intelligence and Machine Learning)   *Cumulative GPA: 7.6/10*

COURSEWORK

Courses: Software Engineering, Web Programming, Engineering Economics and Accountancy, Algorithms, Data Engineering, Artificial Intelligence, Machine Learning and Neural Networks, Deep Learning and Computer Vision, Professional Ethics and Human Values.
Certifications: Google UX Design (7-course certification), Introduction to Front-End Development - Meta, Web Development, Amazon Web Services (AWS), Introduction to Cybersecurity.

WORK EXPERIENCE

Envox Media | *UI/UX Design, Web Development, Content Management*   Delhi, India — Aug 2024
- Created and redesigned the company's website to enhance **user experience** by streamlining navigation and improving design aesthetics, resulting in 40% increase in user engagement.
- Strategized and curated **digital content** for the company's social media handles, securing over a 50% increase in user view count and interaction.

Ovkay Logistics | *Natural Language Processing, Dialogflow, Chatbots*   T-Hub, India — Jul 2023
- Developed a chatbot with fine-tuned **LLMs** trained on advanced **NLP** techniques using **Dialogflow by Google**, achieving an 80% increase in accurate query handling over rule-based systems.
- Scaled model capacity to support over 10,000 interactions per minute, achieving a 25% improvement in user query comprehension and response time.

SKILLS

Design Skills

Software: Figma, Adobe Illustrator, Adobe Photoshop, Adobe After Effects, Sketch, Canva
Processes: User Interface, Physical and Digital Prototyping, Visual Designing, Wireframing, Low-High fidelity mockups
Research: User Interviews, User Testing, Competitor Analysis, Design Strategy, Information Architecture
Visuals: Branding, Typography, Iconography, Book Designing, Package Designing

Technical Skills

Web Development: HTML, CSS, JavaScript (JS), TypeScript (TS), React JS, Next JS, Framer Motion
Languages: C, Python, Java, SQL, Bash
Additional: Microsoft Excel, Dialogflow, Wix, VS Code, Framer

RESEARCH EXPERIENCE

Knee Osteoarthritis Analysis and Severity Classification Using Deep Learning Techniques   Oct 2024
- Implemented **data augmentation** techniques to enhance model generalization, increasing accuracy of early osteoarthritis detection by over 20%.
- Fine-tuned **VGG16**, **ResNet**, and **DenseNet** architectures for X-ray image classification, surpassing prior benchmarks with a maximum accuracy of 98.4%.

An AI-Driven UI/UX Guidance Tool for Novice Designers   Jun 2024
- Ideated and working on building an **AI-assisted tool** to help early-stage **UI/UX** enthusiasts validate their designs under **7+ pre-defined categories** like typography and colour theory.
- Defined a **computer vision**-based model to detect core **UI** elements and auxiliary data, providing users with detailed suggestions and a 5-point rating to improve design quality.

PROJECTS

Petals and Promises | *Figma, Canva, Adobe Illustrator, Adobe After Effects*   Nov 2024
- Structured a prototype to provide an **online platform** for customized flower buying and selection, addressing an issue faced by **70% of users** gathered through user research.
- Led and developed the interface single-handedly, helping users learn the significance of **15+ flowers** and arrangements in bouquets.

A Novel Hybrid Model to Predict Dissolved Oxygen Using Deep Learning   Sep 2024
- Incorporated **LSTMs** and **GRU** into a hybrid deep learning model for predicting dissolved oxygen levels, achieving up to 95% of prediction precision.
- Integrated optimization techniques like **PSO** to enhance model performance by 2x, ensuring adequate water quality monitoring for aquaculture.

SWAVYA | *JavaScript, React JS, MongoDB, Chatbots*   Feb 2024
- Designed a full-stack web application to integrate **12+ exercise routines** and **9+ diet plans** to promote fitness among users, while also making personalized requests using a chatbot service.
- Contributed to building interactive designs, constructing user flows, and **enhancing user experience** as part of the ACM hackathon, fetching positive reviews from 66% of judges.

Teaching the Next Billion Minds | *Python, Web Development, Data Analysis, Machine Learning*   Jan 2024
- Developed an **assignment allocator platform** to personalize educational tasks based on **student proficiency levels**, enhancing learning engagement and academia.
- Integrated advanced data processing to create precise assignment suggestions using **adaptive learning methodologies**, increasing task relevance and efficiency.

POSITIONS OF RESPONSIBILITY AND LEADERSHIP

Recens by Calvor | *Co-founder and Creative Director*   Dec 2024
- Launched strategies to commence a clothing brand providing fashionable apparel while delivering comfort and style. Adopted **sustainable** practices by using **100% non-polyester** materials.
- Devised market engagement strategies as an entrepreneur, organizing **40+ customer discovery interviews** to understand product-market fit and **MVP** building.

Candleves | *Co-founder and Student Co-ordinator*   Jun 2023
- Co-founded VNRVJIET's management club; handled **15+ technical and cultural** events, facilitating on-ground volunteering and backstage operations.
- Initiated the **1st edition** of Auto Expo as part of Convergence - VNRVJIET's largest annual technical fest, contributing to over **70%** of ticket sales.

TEDxVNRVJIET

Networking Head | Oct 2024

* Coordinated with and brought in **12+ world-class speakers**, selling out the entire event **under 72 hours**.

Outreach Coordinator | Apr 2023

* Secured prominent speakers like **Mrs. Universe 2023**, directly contributing to sell-out event sales.

ADDITIONAL

Languages: Fluent in English, Telugu, Hindi

Hobbies: Dancing, Reading, Travelling, Painting.

Extra-Curriculars: Kho-kho, Volleyball.