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KRITARTH DANDAPAT

Full Stack Developer, AI Enthusiast

PROFESSIONAL SUMMARY

Driven innovator with proven expertise in AI and software development, notably at the University at Buffalo, where I spearheaded AI dental health solutions and enhanced student learning in Statistics. Skilled in React and Python, I excel in creating impactful technologies and fostering team collaboration, achieving significant advancements in both academic and health tech sectors.

EDUCATION

BACHELOR OF SCIENCE IN COMPUTER SCIENCE **May 2026**
University at Buffalo
GPA: 3.974

WORK EXPERIENCE

Research Assistant -ESC LAB **Jun 2024 – Present**
University at Buffalo ***Buffalo, NY***

- *Worked on developing AI for advanced dental health solutions.*
- *Supervised by Professor Wenyao Xu, contributing to AI integration in dental health technologies as an intern.*
- *Developed mobile and web applications for a dental health platform with Professor Xu using React Native and React.*
- *Utilized YOLO-based object detection for improved automation in advanced applications.*
- *Engineered systems to track oral health metrics, offering customized suggestions for improvement.*
- *Streamlined processes to achieve a 30% reduction in load durations.*

Tutor and PAL Leader – Tutoring and Academic Services **August 2024-Present**
University at Buffalo ***Buffalo, NY***

- *Led two 1-hour sessions per week, increasing student comprehension of Statistics concepts by 30% as measured by quiz scores and feedback.*
- *Created over 10 customized worksheets and exercises, boosting class participation by 25% and improving overall engagement.*

FOUNDER AND VICE PRESIDENT **OCT 2023 – Jan 2024**
UB NSDC(NATIONAL STUDENT DATA CORPS)

- *Facilitated teamwork in **NSDC website co-development**, promoting effective event planning and meeting coordination.*
- *Spearheaded the launch of the NSDC website, streamlining event planning and boosting team coordination.*

PROJECT

- **People Counting using CSRNet:** Implemented deep learning model using CSRNet for accurate people counting in highly congested scenes, improving detection accuracy and performance in complex environments.
- **Human Emotion Detection using Vision Transformers:** Developed emotion detection system utilizing CNN, ResNet-34, and Vision Transformer (ViT) for emotion classification from images, achieving 87.5% accuracy. Combined multiple deep learning techniques to enhance system performance.
- ***Pathfinding Visualizer using A Algorithm:**** Created interactive pathfinding visualizer with Python and Pygame, implementing the A* search algorithm for dynamic grid-based pathfinding visualization. Enhanced user experience with a customizable graphical interface.
- **Personalized Student Shell (PSS):** Designed command-line shell for students to enhance workflow, task management, and learning. Integrated features such as custom aliases, command history, auto-completion, code execution, tutorials, error suggestions, and API integrations. Added gamification elements like command challenges and leaderboards to encourage continuous learning.

SKILLS

Languages and Technologies: Python, Java, JavaScript, C/C++, Rust, HTML/CSS
Frameworks and Libraries: React, React Native, Django, Node.js, Express, PyTorch, TensorFlow
Tools and Databases: Firebase, SQL, MongoDB, Git/GitHub, Tailwind CSS, Figma

CERTIFICATIONS

- **Machine Learning Specialization** by Stanford University & DeepLearning.AI on Coursera.
- **Deep Learning Specialization** by Stanford University & DeepLearning.AI on Coursera.