

Mayank Patoliya

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OBJETIVO PROFESIONAL

Fourth-year B.Tech student in Artificial Intelligence, dedicated to applying theoretical knowledge to real-world applications. Competent in foundational machine learning and data structures, with a demonstrated capacity for strong teamwork and effective time management. Actively seeking roles that foster continuous learning and allow for tangible contributions to advanced AI and software development projects.

EDUCATION

- Bachelor of Engineering in Computer Science (Artificial Intelligence) | Shri Shankaracharya Institute of Professional Management & Technology, Raipur, Chhattisgarh | October 2022 - Present
- Class XII | National Convent Higher Secondary School, Changorabhata, Raipur | 2022
- Class X | National Convent Higher Secondary School, Changorabhata, Raipur | 2020

SKILLS

- Programming & Web Development: Python, JavaScript, HTML5, CSS3, C++, SQL
- Machine Learning & AI: Supervised Learning, Neural Networks, Natural Language Processing (NLP), Emotion Recognition
- Data Science Stack: NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn
- Tools & Frameworks: Tailwind CSS, Three.js, Git, GitHub, Tesseract OCR, Bootstrap
- Design & UI/UX: Responsive Web Design, 3D Web Modeling, UI/UX Design Principles

PROJECTS

Digital-Voyage-Mayank-Patoliya | 3D Interactive Portfolio Website

[Link](#)

- Built a fully responsive personal portfolio using HTML5, Tailwind CSS, JavaScript, and GSAP (ScrollTrigger) featuring smooth scroll-based animations and performance-optimized transitions. Integrated an interactive 3D model experience to enhance visual storytelling and user engagement. Implemented custom UI elements such as animated cursors and dynamic components, focusing on modern UI/UX principles, responsiveness, and clean project architecture with Git-based version control.

Fretboard Memorizer

- This project is a web-based Fretboard Memorizer, utilizing HTML, CSS, and JavaScript to provide a timed, randomized verbal prompting tool. It enables users to customize "alphabets" (e.g., musical notes), set durations, and define BPM for spoken prompts, aiding in memorization through the Web Speech API with an Indian English voice preference.

Cyberbullying Detection

- Developed a real-time cyberbullying detection system using Python, Scikit-learn, and Pandas. The project involved comprehensive NLP techniques including data cleaning, text preprocessing (tokenization, stemming, stop word removal), and TF-IDF vectorization. Leveraged Logistic Regression, Naive Bayes, and Random Forest models, deploying the best-performing one via a Flask API for web-based, real-time text analysis.

An AI Emotion Adaptive Music Therapy System using Multimodal AI

- Engineered a patentable AI-based music therapy system designed to dynamically deliver personalized therapeutic audio. The project involved real-time emotion recognition using data analytics and NLP techniques to process live user inputs. Leveraged advanced neural network models to map emotional states to music parameters, deploying the solution via a responsive web interface for seamless, real-time user interaction.

CERTIFICATION

- Web development/Core PHP - Completed a comprehensive web development course, gaining proficiency in HTML, CSS, JavaScript, PHP, and Bootstrap for building dynamic, responsive, and scalable web applications.