Mayank Patoliya

+91 7999401597 • mayankpatoliya20@gmail.com • https://www.linkedin.com/in/mayank-patoliya-875712376

SUMMARY

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

- Computer Science Engineering (Artificial Intelligence) | Shri Shankaracharya Institute of Professional Management & Technology, Raipur (Chhattisgarh) — 5.7 CGPA | Oct'22 – present
- CLASS XII |National convent Hr. Sec. School, Changorabhata, Raipur — 2022
- CLASS X | National convent Hr. Sec. School, Changorabhata, Raipur — 2020

SKILLS

- **Programming Languages:** Python (basic), C++, HTML, CSS, JS
- **Machine Learning & AI:** NumPy, Pandas, Matplotlib, Seaborn, Tesseract,OCR
- **Soft Skills:** Problem-Solving, Critical Thinking, Communication, Leadership, Team Work

PROJECTS

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.

Credit Card Fraud Detection

- Developed a machine learning system for credit card fraud detection, applying Logistic Regression, Decision Tree, Random Forest, and XGBoost with Python, Scikit-learn. The project focused on data preprocessing, handling class imbalance, and evaluating models using accuracy, precision, recall, F1-score, and ROC-AUC for high detection efficiency.

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.

Detection of Face Swap Deepfake Videos

- This project developed an AI/ML solution for detecting face-swap deepfake videos by employing advanced deep learning models (CNNs, RNNs, LSTMs) and innovative techniques like Vision Transformers and few-shot learning for robust anomaly detection The system, including a web-based API for deployment, aims to enhance cybersecurity and combat misinformation, with Logistic Regression identified as the top-performing model

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.**