Adarsh Juyal

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EDUCATION

Graphic Era Hill University   Dehradun
Bachelor of Technology in Computer Science — CGPA: 8.1/10.0   *2021 – 2025*

Universal Academy   Dehradun
12th, C.B.S.E — Percentage: 77%   *2021*

Universal Academy   Dehradun
10th, C.B.S.E — Percentage: 91%   *2019*

PROJECTS

Wander Stay | *React, Express, Node, MongoDB* | *Link*   March 2024 – May 2024
- Developed a full-stack hotel booking web application that streamlines the reservation process with advanced features and a seamless user experience.
- Implemented secure user registration and login functionalities using JWT and bcrypt, ensuring data privacy and security.
- Designed and developed a robust backend for managing hotel information, including CRUD operations for hotel listings, room types, pricing, and availability.
- Built dynamic search, sort, and filter functionalities using MongoDB's query capabilities and Elasticsearch, allowing users to efficiently find hotels based on various criteria.
- Integrated Stripe API for secure online payment processing, handling transactions, and payment confirmations seamlessly.

Disease Predictor System | *Machine Learning, Streamlit* | *Link*   Feb 2024
- Engineered and trained predictive models using SVM and logistic regression algorithms to accurately assess the risk of multiple diseases, including heart disease, diabetes, Parkinson's disease, and breast cancer. Employed feature engineering and selection techniques to enhance model performance and accuracy.
- Implemented a user-friendly and interactive interface using Streamlit, enabling seamless user interaction and data input. The interface provides real-time predictions with comprehensive explanations of the results.
- Integrated real-time prediction capabilities, allowing users to receive immediate feedback on their health status based on the input medical data.

Image to Text Converter | *OpenCV, Tesseract, Streamlit* | *Link*   June 2024 – July 2024
- Developed an advanced image-to-text converter application leveraging cutting-edge OCR technology and comprehensive image preprocessing techniques.
- Utilized Tesseract OCR to extract text from various image formats, including PNG, JPG, JPEG, BMP, and TIFF, providing high accuracy in text recognition.
- Integrated advanced image preprocessing techniques such as grayscale conversion, noise removal, thresholding, dilation, erosion, and morphological opening to enhance OCR accuracy. Included adjustable parameters for denoising strength and threshold levels, enabling users to fine-tune the preprocessing.

TECHNICAL SKILLS

Core: Data Structures, Algorithms, Operating Systems, Database Management Systems, Computer Networks, Object-Oriented Programming
Languages: C/C++, Python, JavaScript, HTML/CSS
Frameworks | Database: React, Node.js, Express, MongoDB, MySQL
Technologies | Libraries: OpenCV, TensorFlow, NumPy, Pandas

ACHIEVEMENTS

Earned a Certificate in "Search Methods for Problem Solving" from IIT Madras. Out of over 1,500 participants, only 250 received certification, demonstrating exceptional proficiency in advanced problem-solving and AI methodologies.

Solved over 1,000 problems across various platforms: LeetCode, GeeksforGeeks, Codeforces.