HARMAN SINGH MALHOTRA

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 Github in Linked-In Microsoft Outlook

Education

Bachelor of Computer Science
University of Petroleum & Energy Studies   8.8/10 CGPA   2021 - present

XII - ISC
St. Joseph's Academy   92.25%   2008 - 2020

Work Experience

Associate Design & VFX Head   UPES - CSI Student Chapter   Sep 2022 - present
- Led a team of 9 designers and visual effects artists, overseeing all aspects of design and VFX over 20+ projects.
- Implemented design strategies and maintained brand consistency across 20+ projects and increased brand awareness by 30%.
- Collaborated over 15+ events associated with the community like Hackathon 7.0, Yugmak 2022

Design Intern   Apna Roti bank   Jun 2022 - Aug 2022
- Executed design strategies and upheld brand coherence across a diverse range of over 15+ projects.
- Streamlined project timelines for 15+ concurrent projects, optimizing resource allocation and consistently achieving on-time delivery of deliverables within budget constraints; reduced project delays by 40%.

Projects

Chess Application
Javascript, TypeScript, node.js, React
- Designed and implemented Chess recommendation application played by 2-people using TypeScript, offering a seamless 1v1 gameplay experience.
- Allowing players to make valid moves and engage in strategic gameplay across a 64-square chessboard.
- Applied a user-friendly interface for move input, enabling players to make moves easily and accurately, resulting in a 20% decrease in move input errors.

iNotebook
Javascript, node.js, React, MongoDB, Express.js, mongoose
- Created iNotebook, a web-based note-taking application, utilizing modern web technologies and best practices, resulting in a codebase with over 2,500 lines of clean and maintainable code.
- Added a secure JWT token system for user authentication, utilizing encryption algorithms, resulting in a token generation time of less than 100 milliseconds..
- Made a robust error handling and response mechanisms for both APIs, resulting in clear error messages and appropriate HTTP status codes for 95% of error cases.

Deep Face detection Model
Python, Jupyter Notebook, TensorFlow, Kivy
- Developed a deep face detection model utilizing convolutional neural networks (CNN) architecture, on a dataset with total of 10,000+ labeled face images.
- Optimized the model's performance, reducing the average inference time to less than 100 milliseconds per image on a CPU.
- Trained the model with learning rate of 0.01 & trained it using a batch size of 20, achieving a convergence rate within 100 epochs, ultimately having 0.00018% Error rate with a 0.99 precision & recall.

Hospital Management System
Javascript, node.js, Express.js, Saas
- Conducted in a team of 4, participated in a GFG hackathon and collaboratively designed and Constructed a recommendation application for a Blockchain-based Hospital Management System using JavaScript.
- Decrypted the data input given by docter about the patient with a accuracy of 95%.
- Adapted the UI looking over the AI Heatmap Analysis of the UX, resulting in a 20% reduction in user interaction time & better user experience.

Skills

- **technical skills:** *Programming Languages*: (C++, HTML, CSS, JavaScript, Python, R) *Web Development*: (Node.js, MongoDB, MySQL), *Version Control:* (Git), *Data Analysis:* (Jupyter), *Database Management:* (MySQL, MongoDB)
- **design skills:** Adobe Photoshop, Adobe Illustrator, Adobe Premier Pro, Canva, Notion.
- **Languages:** English(Fluent), Hindi (Native).
- **Certifications:** JavaScript Algorithms and Data Structures (freeCodeCamp.org), Front End Development Libraries (freeCodeCamp.org)
- **Agile & Scrum:** Agile methodologies and Scrum framework
- **Soft skills:** Communication, Creativity, Collaboration