

VARDAYINI CHOUGULE

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EDUCATION

D.Y Patil School of Engineering and Management

Bachelor of Engineering

Major in Computer Science; Minors in Data Science; Honors in Cybersecurity

Cumulative GPA: 8.35/10.0

Relevant Coursework: Computer Networks, Software Development Life Cycle (SDLC); Operating Systems; Data Structures & Algorithms, Internet of Things (IoT).

Kolhapur, MH

Expected May 2027

WORK EXPERIENCE

Oasis Infobyte

Web Development Intern (Remote)

Kolhapur, MH

Mar 2024 – Apr 2024

- Engineered and optimized responsive websites, increased page load speed by 30% and engagement by 25%.
- Designed and deployed interactive web components using HTML, CSS, and JavaScript, enhancing user experience, and reducing bounce rates by 20%.

ACADEMIC PROJECTS

BOOKING ENGINE

Nov 2023

- Spearheaded the design and execution of a movie ticket booking application in a 4-person team using HTML, CSS, JavaScript, **Node.js**, and **React** during a 5-day hackathon.
- Incorporated a seamless ticket reservation system with email-based ticket confirmations, provided users with convenient booking experience; awarded most innovative project by the Head of the Department.

YOUTUBE BOOKMARK – BROWSER EXTENSION

Oct 2024

- Crafted a Chrome extension using Manifest file (manifest.json), HTML, CSS, and JavaScript to allow automatic bookmarking of YouTube videos, enabling users to resume playback from their last stop, enhancing experience for 500+ users.
- Created a robust local storage solution within the developed extension that preserved over 95% of user progress across browsing sessions, ensuring fluid continuity across browsing activity with minimal latency.

SORTING ALGORITHM VISUALIZER

Feb 2024

- Pioneered the creation of a Sorting Algorithm Visualizer using C++, optimizing educational tools to enhance debugging efficiency and reduce understanding time for sorting algorithms by 30%.
- Developed a graphical interface, showcasing real-time comparisons and swaps during algorithm execution.

TEXT ENCRYPTION – DECRYPTION TOOL

Aug 2024

- Built a text encryption and decryption tool leveraging the **Caesar Cipher algorithm** to bolster data confidentiality for over 100+ users in multiple environments and showcase core cryptographic principles.
- Devised an intuitive, interactive interface using HTML, CSS, and JavaScript, enabled secure and efficient text encoding, and decoding functionality, increasing data security awareness by 50% within the user base.

BRAIN TUMOR CLASSIFICATION USING DEEP LEARNING

Aug'24 – Oct'24

- Executed a Convolutional Neural Network (CNN) using Python, **TensorFlow**, and **Keras** to classify brain tumor images into binary and categorical models with 92% accuracy.
- Transformed MRI scan data, converting it into **NumPy** arrays, normalizing it for consistency (scaling data between 0 and 1), and prepared it for training, processing over 3,000 MRI images for robust model development.
- Assembled and Fine-tuned the model with techniques like data flattening and layer optimization achieving an F1 score of 91%, and deployed the model as a web application using **Flask**.
- Assessed the model's performance through metrics like precision (90%), recall (93%), and confusion matrices, achieving robust predictions in both binary and multi-class classification.

ADDITIONAL

Technical Skills

- Programming Languages : C, C++, Java, Python, JavaScript.
- Web Development : HTML, CSS, React, Node.js, UI/UX design.
- Database Management : SQL (Basics).
- Tools & Frameworks : Flask, TensorFlow, Keras, NumPy, Git, Visual Studio Code, Bootstrap, Wireshark, Cisco.
- API Integration : RESTful APIs for real-time application development.
- Algorithm & Data Structures : Proficient in optimizing and implementing algorithms

Languages

- Fluent in Hindi, English
- Conversational Proficiency in German

Certifications & Training

- Data Science and Machine Learning with Python – **Coursera**
- Algorithmic Thinking and Optimization – **Udemy**
- Google Cloud Digital Leader – **Google Cloud Training**

Awards

- Top 10 Developer, National Hackathon – Recognized for developing a scalable solution using cloud technologies.