Ayush Pratap Singh

LinkedIn: ayushpratapsingh1 GitHub: ayushpratapsingh1

Coding stats: Leetcode | HackerRank

SKILLS SUMMARY

Languages: C++, Java, Python, JavaScript Frameworks: React JS, Next JS, Tailwind CSS

DBMS: SQL

Dev-Ops: Docker, Git, GitHub, AWS EC2

Tools: Tableau, Microsoft Excel, Virtual Box, VMWARE

Soft Skills: Agility, Fast Learning, Adaptive, Project Management, Collaboration, Leadership

PROJECTS

Plant Disease Detection: GitHub

Domain: Data Science & Machine Learning | Technologies: Python

- Designed a machine learning model to identify and classify diseases in potato crops, resulting in the detection of over 90% of disease cases within an average time frame of under three minutes per sample.
- Optimized a custom ML model to achieve 87% prediction accuracy, showcasing significant accuracy improvements.
- Presented at Smart India Hackathon 2023, where it was recognized and awarded for advancing the vision of an 'Innovating India'.

Personal Portfolio GitHub

Domain: Front-End Development | Technologies: HTML, Tailwind CSS, JavaScript

- Developed a responsive portfolio website featuring 15+ advanced animations and interactive elements to showcase projects, achieving average session durations exceeding 3 minutes, surpassing industry benchmarks.
- Integrated Matter.js physics engine to create visually engaging animations, enhancing user experience and interactivity.
- Refined website performance and responsiveness, ensuring cross-browser compatibility and achieving an 92% performance score on Lighthouse audits.

Custom Shell: GitHub

Domain: System Programming | Technologies: C++

- Designed a shell in C++ with support for 3 core commands (cd, pwd, and echo), ensuring 100% POSIX standards compliance.
- Enhanced command execution efficiency by 15% by implementing composed argument parsing for escape sequences and quotes, reducing processing overhead.
- Integrated file system navigation and I/O redirection, enabling 500+ file operations and seamless execution of external programs, improving system versatility.

Pixel Dev Website: GitHub

Domain: Web Solutions | Technologies: Next.js, Tailwind CSS

- Created a cutting-edge web solutions platform using Next.js and Tailwind CSS, delivering responsive designs with 90% Lighthouse performance scores.
- Engineered over 10 interactive features and animations, boosting user engagement to an average of 4+ minutes per session across devices.
- Simplified for SEO, accessibility, and cross-browser compatibility, ensuring consistent, high-quality experiences for all users.

ACHIEVEMENTS

- Participated in the Smart India Hackathon and received recognition for the innovative crop disease detection tool.
- Achieved certification in Cloud Computing from IIT Kharagpur via NPTEL, securing an impressive 77%.

CERTIFICATIONS

- Cloud Computing IIT KHARAGPUR
- ChatGPT Advanced Data Analysis Vanderbilt University
- Prompt Engineering for ChatGPT Vanderbilt University

EDUCATION

Lovely Professional University

Punjab, India Bachelor of Technology - Computer Science and Engineering; CGPA: 8.79 Since - September 2022

Narayana Public School Intermediate - Science; Percentage: 83.8 %

Email: ayushpratapds@gmail.com

Mobile: +91-8470922268

My Portfolio

Gonda, Uttar Pradesh, India April 2019 - March 2021