

PULKIT PORWAL

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PROFESSIONAL SUMMARY

Innovative and detail-oriented Software Developer with a strong foundation in AI, Machine Learning, and Full-Stack Development. Skilled in Python, JavaScript, and deep learning frameworks, with experience in building intelligent applications. Passionate about solving real-world problems through technology, optimizing workflows, and continuously learning new advancements in AI and software development.

EDUCATION

Bachelors of Computer Application (BCA) - Amity University Jaipur

2023-26
9.52 CGPA

12th CSBE Boards - Kendriya Vidyalaya Sangathan Baran

2022-23
88.6 %

10th RBSE Boards - S.S. International School Baran

2020-21
95 %

EXPERIENCE

National Service Schema - AUR

Jaipur

Technical Team Head

January 2024 - Present

Developed a dynamic Members Portal for the NSS Club, enabling efficient management of member profiles, event registrations, and attendance tracking. Designed an intuitive user interface and implemented secure login functionality. Streamlined data handling with a responsive website, enhancing the overall productivity and engagement of club activities.

Robotics and Internet of things Club - AUR

Jaipur

Full Stack Web Developer

January 2024 - December 2024

Created a comprehensive Members Portal for the RAIOT Robotics and IoT Club, featuring member management, event registration, and resource sharing. Designed a user-friendly interface and integrated secure authentication. Enhanced club operations by streamlining communication and collaboration among members through a responsive and efficient web platform.

PROJECTS

- **Brain MRI Image Generation and Classification:** Collaborating with Dr. Usama, Assistant Professor at Sohar University Oman, to develop a DCGAN-based pipeline for generating synthetic MRI images, enhancing dataset diversity for brain tumor classification. Trained a deep learning model using EfficientNet, ResNet, and MobileNet on the combined real and synthetic dataset, achieving 92% accuracy in classifying tumors.
- **BNS Legal Assistant:** Developed an AI-powered legal search tool leveraging Retrieval-Augmented Generation (RAG) to assist users in identifying relevant sections from the newly proposed Bhartiya Nyay Sanhita (BNS). Integrated advanced NLP techniques for precise information retrieval and built a user-friendly interface to simplify access to legal content. Project accepted for presentation at the ICCSAI 2025: International Conference on Computational Science and Artificial Intelligence.
- **AI Powered Gesture Calculator:** Developed an AI-powered Gesture Calculator using OpenCV and Gemini, enabling real-time arithmetic operations through hand gestures. Implemented intuitive gesture recognition for seamless, touch-free mathematical calculations.
- **SNIPPETER:** Designed and developed SNIPPETER, an application to save frequently used code snippets with an AI-powered feature using Gemini for generating snippets. Enhanced productivity and streamlined coding workflows.

AWARDS , ACHIEVEMENT & EXTRA CURRICULAR ACTIVITIES

- Volunteer in the National Integration Camp 2025 as a Technical Head.
- Got 2nd Prize in Chess in 9th Standard
- Technical Head at National Service Scheme AUR

SKILLS

- ML/DL Skills: Python, Flask, PyTorch, Tensorflow, Pandas, Numpy, Matplotlib, Scikit-learn, OpenCV
- Web Dev Skills: HTML, CSS, Javascript, React Js, Next Js, Express Js, Tailwind CSS, ShadCN,