SHUBHRANSHU

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OBJECTIVE

Dedicated to advancing expertise in web development and machine learning through practical, hands-on projects. Focused on delivering innovative solutions within collaborative, dynamic environments.

EDUCATION

Bachelors of Technology	United College of Engineering and Research, Prayagraj (CSE)	Expected 2025
Intermediate (10+2)	MPVM Ganga Gurukulam (CBSE)	2021
High School	MPVM Ganga Gurukulam (CBSE)	2019

PROJECTS

Personal Portfolio (Web Development) October 2024 - January 2025

- Designed and developed a responsive personal portfolio website showcasing skills, projects, and achievements using Next.js and TailwindCSS.
- Integrated Resend API for secure contact form submissions via a POST endpoint, enhancing functionality, and optimised SEO with dynamic metadata and a custom favicon.
- Deployed on Vercel for reliable performance and managed domain/private email via NameCheap, establishing a professional online presence.

U-Net Architecture for Polyp Segmentation (Machine Learning) June 2024 - July 2024

- Implemented a U-Net model using Python, TensorFlow, and Keras to segment polyps in colonoscopy images, achieving 95.20% precision and 81.50% accuracy through convolutional layers and data augmentation.
- Preprocessed datasets (resizing, normalisation) and visualised segmentation results, providing actionable insights for medical diagnostics.
- Developed during an internship at MNNIT Allahabad, validated with robust evaluation metrics.

Convolutional Neural Network for MNIST Digit Classification (Machine Learning) June 2024

- Created a CNN using Python, TensorFlow, and Keras on Kaggle Notebook, achieving 99.41% training accuracy and 0.9895 validation accuracy for handwritten digit classification.
- Preprocessed the MNIST dataset (normalisation, reshaping) and designed a sequential model with convolutional, pooling, and dropout layers for robust performance.

INTERNSHIPS

Machine Learning (Department of CSE, MNNIT Allahabad) June 2024 - July 2024

- Developed a U-Net-based polyp segmentation model under Dr AK Maurya, Prof Mayank Pandey and Prof DS Kushwaha, enhancing Python and TensorFlow skills.

AI/ML on Geodata (ISRO, Dehradun) August 2024

- Participated in an online course on AI/ML applied to geodata, conducted by ISRO from August 19 to 23, 2024.

JavaScript Training Intern (IBM Training) September 2022 - October 2022

- Completed a course on extending DOORS Next with JavaScript, strengthening web development capabilities.

SKILLS

Web Development	NextJS, ReactJS, HTML, CSS, SCSS, TailwindCSS, JavaScript
Machine Learning	Python, R, TensorFlow, Keras, NumPy, Pandas, NLTK, VADER
Concepts	Single-Page Applications, Responsive Design, SEO Optimization, CNNs, U-Net, Preprocessing
Tools	Vercel, NameCheap, Resend API, Jupyter Notebook, Kaggle Notebook, Git
Animation & Effects	Parallax Scrolling, CSS Animations

CERTIFICATIONS

- Data Analytics and Visualization Job Simulation – Accenture via Forage — Jul 2024
- Using Beam ML to Catch Toxicity in Gaming – Google Cloud via Coursera — Nov 2023
- Oracle Cloud Infrastructure 2023 Certified Foundations Associate – Oracle Corporation — Sep 2023