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)	6.58 CGPA	2025
Intermediate (10+2)	MPVM Ganga Gurukulam, Prayagraj (CBSE)	83%	2021
High School	MPVM Ganga Gurukulam, Prayagraj (CBSE)	87%	2019

PROJECTS

Graph Neural Networks for Survival Prediction (Machine Learning) March 2025 - May 2025

- Developed a Graph Neural Network using PyTorch and PyTorch Geometric to predict survival outcomes on the Titanic dataset, achieving 85% concordance index and 0.6942 F1-score across 891 passenger nodes.
- Constructed graph with 1,200 edges from 11 set features, reducing prediction error by 15% compared to baseline models.
- Optimised training with GPU acceleration, processing 10,000 iterations in 2 hours for survival analysis.

Personal Portfolio (Web Development) October 2024 - January 2025

- Developed a responsive portfolio website using Next.js and TailwindCSS, showcasing 10+ projects, achieving 98% mobile responsiveness score.
- Integrated Resend API for secure contact form submissions, handling 50+ monthly enquiries, with SEO optimisation increasing site visits by 30%.
- Deployed on Vercel, establishing a professional presence at shubhranshu.me.

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

- Built a U-Net model with TensorFlow and Keras for polyp segmentation in 1,500 colonoscopy images, achieving 95.20% precision, 81.50% accuracy, and 0.87 F1-score.
- Preprocessed images using OpenCV, resizing to 512x512 pixels, reducing processing time by 20% during training.
- Validated during MNNIT Allahabad internship, improving diagnostic accuracy by 10% over traditional methods.

Sentiment Analysis (Natural Language Processing) June 2024

- Developed a sentiment analysis model using NLTK and VADER in Python, classifying 10,000 text samples with 88% accuracy and 0.85 F1-score.
- Preprocessed text with tokenisation and stop-word removal, reducing feature space by 40% for efficient training.
- Evaluated on Amazon Fine Food Reviews, improving sentiment prediction by 12% over baseline rule-based methods.

INTERNSHIPS

Biostatistics Intern, Teachnook, Remote September 2024 - October 2024

- Applied ML in R and Python with scikit-learn and caret for survival prediction, achieving a 0.6942 F1-score.

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

- Developed deep learning models using Python, TensorFlow, and Keras for polyp segmentation, achieving a 0.87 F1-score.

JavaScript Training Intern (IBM Training), UCER Prayagraj September 2022 - October 2022

- Learnt MERN stack fundamentals, including MongoDB for database management, Express.js and Node.js for APIs, and React for dynamic front-end development.

SKILLS

Machine Learning	Python, R, TensorFlow, Keras, PyTorch, NumPy, Pandas, NLTK, VADER, Scikit-learn
Web Development	Next.Js, React.Js, HTML, CSS, SCSS, TailwindCSS, JavaScript
Concepts	CNNs, U-Net, GNNs, NLP, Preprocessing, Responsive Design, SEO Optimization