Kshitisha Negi

Artificial Intelligence and Machine Learning | Computer Science Undergrad | Phone: +91 8445070115 | Email: kshitishanegi@gmail.com
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Education

University of Petroleum and Energy Studies *2022 - 2026*
B.Tech in Computer Science with specialization in Artificial Intelligence and Machine Learning
CGPA: 7.4
Relevant Electives: Artificial Intelligence and Machine Learning

The Indian Academy *2021 - 2022*
Senior Secondary Education | Percentage: 81%

The Indian Academy *2019 - 2020*
Secondary Education | Percentage: 94%

Skills

Languages: Python, Java, JavaScript, SQL
Web Technologies: HTML, CSS, EJS
Frameworks & Libraries: PyTorch, PyTorch Geometric, TensorFlow, OpenCV, Scikit-learn
Soft Skills: Leadership, Team Collaboration, Strategic Planning

Experience

AI Intern *06/2024 - 07/2024*

- Engineered an AI-driven chatbot, improving user experience by 50%.
- Developed a high-accuracy facial recognition application that achieved 95% accuracy, significantly improving security in real-world scenarios.

Web Developer Intern – Parashakti *06/2023 - 09/2023*

- Spearheaded the development of a responsive front-end website for the NGO, increasing online donations by 40% within 3 months.
- Resolved technical issues daily, maintaining a high satisfaction rate among users.

Projects

Image Forgery Detection using Graphical Neural Network *01/2025 - 04/2025*

- Engineered a GNN-based image forgery detection system using ResNet-18 for feature extraction and SLIC superpixel segmentation to build spatially-aware graphs; each node represented a superpixel, enhancing relational understanding of tampered regions.
- Implemented and optimized the end-to-end pipeline using PyTorch Geometric, reducing training time from 2.5 hours to 40 minutes/epoch; achieved improved accuracy on CASIA v2.0 and Kaggle Forgery datasets using metrics like IoU, Precision, Recall, and F1-Score.
- Designed a modular architecture with Python, React, and Node.js, producing interpretable visual overlays of forgery detection results; proposed extensions like GAT-based upgrades, Streamlit UI, and real-time video detection for forensic and media applications.

Image Classification through Handcrafted Features using Machine Learning Algorithms *08/2024 - 11/2024*

- Built a C++ application for detecting image forgery using SURF (Speeded Up Robust Features), achieving a 98% accuracy rate in forgery detection.
- Implemented visual comparison and confidence metrics to match features between original and suspect images, reducing manual detection time by 50%.

Caffeinated By Kshitisha *01/2024 - 05/2024*

- Implemented interactive elements (e.g., coffee origin maps and flavor profiles), enhancing the user experience and boosting satisfaction scores by 40%.
- Leveraged AngularJS and EJS for faster navigation and increased customer satisfaction by 30%.

Accomplishments and Recognitions

Advisor – UPES CSA *2025 – Present*

- Provide strategic guidance and mentorship to the core committee and student members in organizing academic, technical, and professional development activities.
- Oversee planning and execution of seminars, coding competitions, hackathons, webinars, and industry guest lectures, ensuring alignment with academic and career development goals.
- Facilitate collaboration between faculty, industry experts, and students to enhance interdisciplinary learning and innovation.

Social Media & Photography Head – UPES-CSA *2024 – 2025*
Supervised a team of 35 members to execute social media campaigns, achieving a 60% boost in engagement rates and 40% higher event participation within a year.

Core Committee Member – UPES CSA *2023 – 2024*
Designed and executed targeted social media campaigns, increasing chapter membership by 45% and improving brand visibility across platforms.