

# Kshitisha Negi

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

<b>University of Petroleum and Energy Studies</b> B.Tech in Computer Science with specialization in Artificial Intelligence and Machine Learning CGPA: 7.4 Relevant Electives: Artificial Intelligence and Machine Learning	2022 - 2026
<b>The Indian Academy</b> Senior Secondary Education   Percentage: 81%	2021 - 2022
<b>The Indian Academy</b> Secondary Education   Percentage: 94%	2019 - 2020

## 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

<b>Data Science Intern-celebal Technologies</b>	06/2025 - 08/2025
<ul style="list-style-type: none"><li>Developed a multi-class plant disease classification system using handcrafted feature extraction (SURF) and traditional ML algorithms (SVM, Random Forest, Gradient Boosting)..</li><li>Built an end-to-end pipeline to process 10,000+ Kaggle Plant Pathology images, achieving 92% accuracy and reducing false positives by 30%.</li></ul>	
<b>Web Developer Intern – Parashakti</b>	06/2023 - 09/2023
<ul style="list-style-type: none"><li>Spearheaded the development of a responsive front-end website for the NGO, increasing online donations by 40% within 3 months.</li><li>Resolved technical issues daily, maintaining a high satisfaction rate among users.</li></ul>	

## Projects

<b>Retrieval-Augmented Generation (RAG) System for Context-Aware Question Answering</b>	07/2025
<ul style="list-style-type: none"><li>Developed a Retrieval-Augmented Generation (RAG) system using Hugging Face Transformers, LangChain, and FAISS to process 50,000+ documents and enable real-time semantic search.</li><li>Engineered an end-to-end pipeline integrating OpenAI GPT-4-turbo and custom embeddings, achieving sub-second query responses on datasets of up to 150k tokens.</li><li>Optimized document ingestion and retrieval workflows, improving search efficiency by 40% and scaling to 500+ concurrent queries in prototype tests.</li></ul>	
<b>Image Forgery Detection using Graphical Neural Network</b>	01/2025 - 04/2025
<ul style="list-style-type: none"><li>Engineered a GNN-based image forgery detection system with ResNet-18 and SLIC segmentation, enhancing detection of tampered regions.</li><li>Optimized PyTorch Geometric pipeline, reducing training time from 2.5 hrs to 40 min/epoch and improving accuracy on CASIA v2.0 and Kaggle datasets.</li><li>Designed modular architecture with Python, React, and Node.js, enabling interpretable visual overlays and supporting real-time forensic applications.</li></ul>	

- 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

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### 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.