

# NAMRATA PAUL

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## SKILLS

- **Languages:** C++, Python, JavaScript
- **Frameworks:** HTML, CSS, Bootstrap, PyTorch, Sci-Kit Learn, TensorFlow
- **Tools/Platforms:** GoogleColab, Hugging Face Hub, Kaggle, Docker, MySQL, Git-GitHub
- **Soft Skills:** Problem Solving Skills, Team Player, Creative Thinking

## PROJECTS

- **E-Commerce Product Recommender:** November 2024  
Developed an advanced e-commerce recommender system using collaborative, content-based, and hybrid models. Optimized real-time interaction analysis and preprocessing for accuracy and engagement. Evaluated performance with precision, recall, and F1 score for scalability.  
**Tech:** Python, Scikit-learn, Pandas, NumPy, TensorFlow/PyTorch, Collaborative Filtering, Content-Based Filtering, Hybrid Models, Precision-Recall Metrics
- **Text-to-Image and Image-to-Text Generator:** November 2024  
Developed a resource-efficient text-to-image pipeline using Minimal DALL-E and transformers for accurate visual generation. Implemented image captioning with BLIP's Vision Transformer for context-aware descriptions. Optimized model efficiency for scalable text-to-image and image-to-text transformations.  
**Tech:** Minimal DALL-E, Transformers, BLIP's Vision Transformer, Language Decoder, PyTorch, Hugging Face Transformers, OpenAI's CLIP
- **ArtisanRoots:** September 2024  
Developed ArtisanRoots, a web marketplace for artisans to showcase and sell traditional crafts. Implemented a user-friendly interface with artisan profiles, search and filter options. Integrated a secure payment system to ensure safe transactions.  
**Tech:** HTML, CSS, JavaScript, eJs

## CERTIFICATES

- NPTEL Swayam (IIT Kharagpur) - Cloud Computing MOOC Certification October 2024
- Cipherschools Training Certificate – Data Structures using C++ July 2024

## ACHIEVEMENTS

- **Advanced to Round 2 in GFG Hack-a-Throne 1.0 Hackathon 2024:** September 2024  
Among 300 participants, developed a solution for the artisan marketplace problem, empowering local artisans with a digital platform to showcase and sell their crafts.

## EDUCATION

- **Lovely Professional University** Punjab, India  
*Bachelor of Technology - Computer Science and Engineering* Since August 2022
- **Career Point Gurukul School** Kota, Rajasthan, India  
*Intermediate; Percentage: 89.6%* April 2019 - March 2021
- **Christ Jyoti School** Nagaon, Assam, India  
*Matriculation; Percentage: 92%* April 2017 - March 2019