

# NISHCHAL PANTA

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## PROFILE SUMMARY

Motivated BCS undergraduate with hands-on experience in machine learning, full-stack development, AWS cloud architecture, and AI application development. Experienced in building end-to-end software systems ranging from neural network-based cybersecurity solutions to production-ready web applications. Currently expanding into Agentic AI, LLM workflows, RAG systems, and scalable AI integrations using modern AI frameworks and APIs.

## EDUCATION

<b>+2 Science (Physics)</b> Uniglobe SS/College, Kathmandu	2021 – 2023
<b>Bachelor of Computer Science (BCS)</b> IIMS College affiliated with Taylor's University, Kathmandu	2023 – Present

## EXPERIENCE

<b>AWS Cloud Fellow – CloudMandap Pvt. Ltd.</b> Kathmandu, Nepal	Feb 2026 – May 2026
<ul style="list-style-type: none"><li>Completed the DAAI Fellowship focused on AWS cloud architecture and cloud solution design</li><li>Applied concepts related to scalability, IAM, VPC, cloud security, and AWS architectural best practices</li><li>Gained practical exposure to cloud infrastructure planning and deployment strategies</li></ul>	

## PROJECTS

<b>Neural Network Cybersecurity Threat Detection</b> <a href="https://github.com/Nishchal-Panta/Cybersecurity_threat_detection">github.com/Nishchal-Panta/Cybersecurity_threat_detection</a>	2024 – 2025
<ul style="list-style-type: none"><li>Developed a deep-learning intrusion detection system using PyTorch to classify network traffic from IDS 2018 datasets</li><li>Designed a 4-layer MLP architecture (512→256→128→2) using ReLU, Dropout, Kaiming initialization, SGD optimization, and early stopping</li><li>Built a complete ML pipeline including preprocessing, one-hot encoding, feature scaling, and stratified dataset splitting</li><li>Evaluated model performance using ROC/AUC, F1-score, and confusion matrix metrics</li></ul>	
<b>Laravel E-Commerce Platform (Wholesale-to-Retail)</b> <a href="https://github.com/Nishchal-Panta/E-commerce_website">github.com/Nishchal-Panta/E-commerce_website</a>	2025
<ul style="list-style-type: none"><li>Built a production-ready e-commerce platform with buyer storefront, admin dashboard, analytics, and inventory management</li><li>Implemented RBAC authentication, CSRF/XSS protection, bcrypt password hashing, and secure session handling</li><li>Developed analytics dashboards using Chart.js and managed database architecture through 12 migrations</li><li>Used Docker Compose for containerized development and deployment workflows</li></ul>	

## TECHNICAL SKILLS

<b>Languages</b>	Python, PHP, Java, SQL, JavaScript
<b>Frameworks &amp; Libraries</b>	Laravel 11, PyTorch, Scikit-learn, Pandas, NumPy, Tailwind CSS, Alpine.js, Chart.js
<b>AI / Machine Learning</b>	Neural Networks (MLP), Supervised Learning, Feature Engineering, NLP Fundamentals, Transformers Basics, Prompt Engineering, Model Evaluation
<b>LLM &amp; AI Tools</b>	OpenAI API, LangChain, Retrieval-Augmented Generation (RAG), Ollama
<b>Backend &amp; APIs</b>	RESTful APIs, FastAPI, MySQL, Full-Stack MVC Development
<b>Cloud &amp; DevOps</b>	AWS Cloud Practitioner Concepts, AWS Cloud Architecting, Docker, Git, GitHub
<b>Frontend</b>	Tailwind CSS, Alpine.js, React Fundamentals, JavaFx

## CERTIFICATIONS & ACHIEVEMENTS

- AWS Certified Cloud Practitioner, AWS Academy Graduate – Cloud Architecting Badge
- Certificate of Achievement – Aqore X RelayHack, Techspire College
- Future Forward Leadership & Communication Certificate
- Certificate of Participation – TEDx IIMS 2024

## LANGUAGES

Nepali (Native)	English (Professional Proficiency)
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