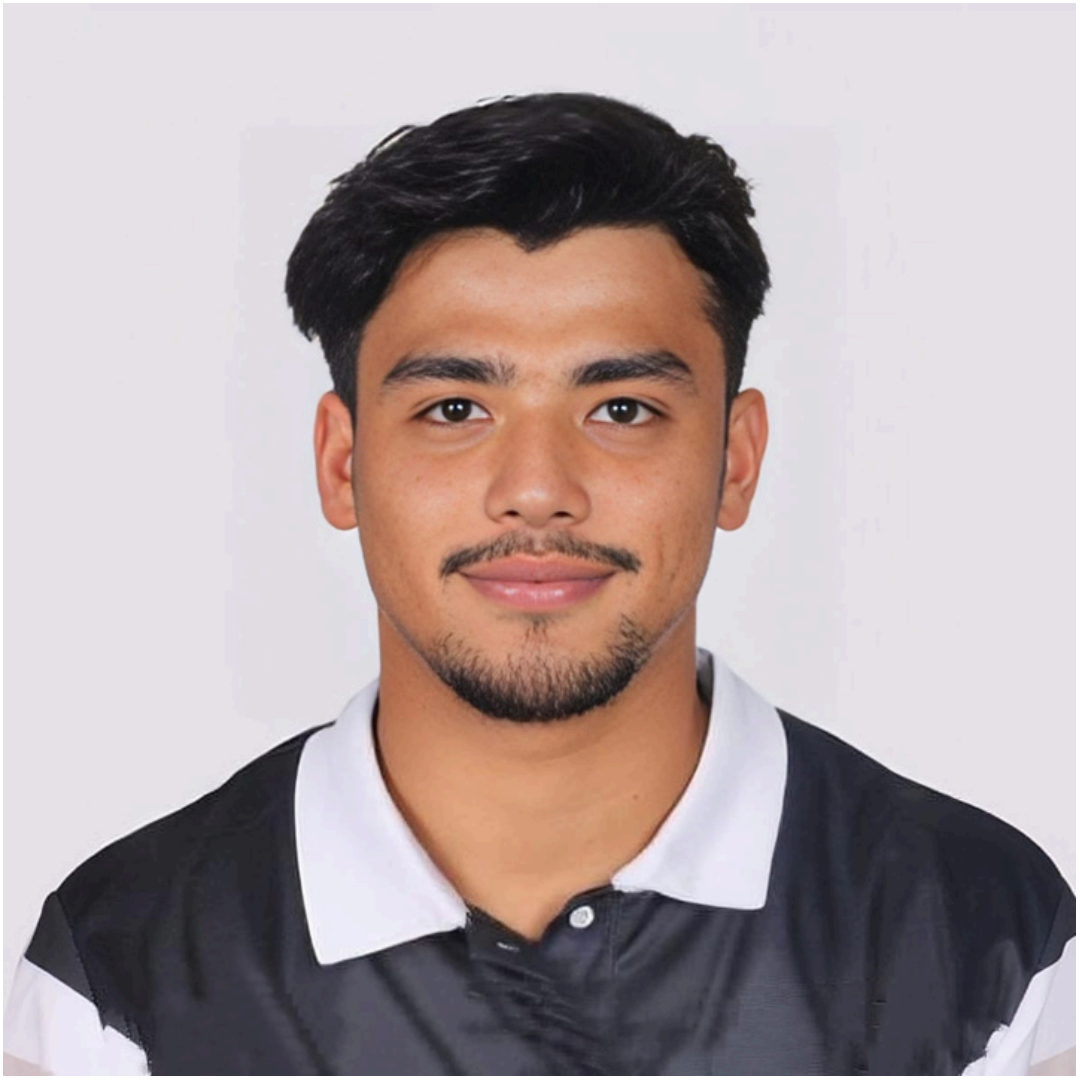

Arun Pandey Laudari

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LinkedIn: linkedin.com/in/ArunPandeyLaudari

EDUCATION

Lumbini ICT Campus , Tribhuvan University — Expected Graduation: 2026
Bachlore of Computer Application — Nepal

Aroma College — Graduated: 2021
Higher Secondary Certificate (Science), GPA: 3.43 — Nepal

TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, Java, PHP, C, JavaScript, HTML/CSS
- **Frameworks & Libraries:** Pandas, NumPy, Seaborn, Matplotlib, scikit-learn, TensorFlow, Keras, NLTK, Lamaparser, Huggingface, LangChain, LangGraph, AGno, CrewAI, Streamlit, FastAPI, Flask, Django, Laravel, Tailwind CSS
- **Tools & Platforms:** Git, GitHub, Postman, Docker, Jupyter Notebook, VS Code
- **Databases:** PostgreSQL, MySQL, SQLite
- **AI & Data Science Concepts:** Data Analysis, Data Visualization, Machine Learning, Deep Learning, Neural Networks, Transformers, Natural Language Processing (NLP), Retrieval-Augmented Generation (RAG), Multi-Agent Systems

PROJECTS

Rural Health AI – Smart Healthcare Solutions | Django, LangGraph, ChromaDB, Google GenAI, SerpAPI, Celery, Redis, PostgreSQL

- Built an Agentic RAG-powered Django platform offering AI-driven healthcare support for rural communities.
- Integrated LangGraph agents with ChromaDB and SerpAPI for adaptive retrieval and multi-step reasoning.
- Implemented role-based modules for chatbot, appointments, awareness campaigns, and document management.
- Optimized performance using Celery with Redis for background tasks and TailwindCSS for responsive UI.

Agentic RAG Using LangGraph | Python, LangChain, HuggingFace, LangGraph, Gemini, RAG, SerpAPI, FastAPI, React

- Engineered an end-to-end Agentic RAG pipeline integrating LangGraph agents for adaptive document retrieval and fallback web search via Ser pAPI.
- Implemented semantic retrieval using Gemini vector store to enhance contextual awareness and response precision.
- Developed a full-stack system with FastAPI backend and React frontend for real-time query interaction and intelligent answer delivery.

SQL Sage Intelligent DB Agent | Python, LangChain, HuggingFace, LangGraph, GROQ, RAG, SQLite, Streamlit

- Developed an intelligent database assistant that converts natural language queries into optimized SQL statements with automatic schema validation.
- Implemented dynamic schema exploration and intelligent query correction to ensure accuracy and reduce SQL errors.
- Built a multi-agent fault-tolerant architecture using LangChain, LangGraph, and RAG for reliable conversational SELECT querying.
- Created both Streamlit and CLI interfaces for real-time database querying and analytics visualization.

Multi-Document Chatbot | Python, LangChain, LlamaParse, HuggingFace, Chroma, Groq LLM, RAG

- Built a multi-format document chatbot supporting PDF, DOCX, PPTX, XLSX, Markdown, and TXT files using robust fallback loaders.
- Used HuggingFace embeddings with persistent Chroma vector store for fast semantic retrieval and contextual responses.
- Integrated SelfQueryRetriever with metadata filtering and Groq LLM for accurate and grounded query responses.
- Enabled multi-turn conversational memory with custom prompting to reduce hallucination and improve consistency.

Customer Churn Prediction System Using ANN | Python, TensorFlow, Keras, Scikit-learn, Streamlit

- Developed an end-to-end customer churn prediction pipeline using Artificial Neural Networks (ANN) with TensorFlow and Keras.
- Implemented data preprocessing with feature scaling, one-hot encoding, and model persistence for reproducibility.
- Built an interactive Streamlit dashboard for real-time churn prediction and customer segmentation visualization.
- Optimized model performance through hyperparameter tuning, early stopping, and TensorBoard-based monitoring.

Movie Recommendation System | Python, Flask, Scikit-learn, Pandas, NumPy, TMDB API, Docker

- Developed a content-based movie recommender using TF-IDF vectorization and cosine similarity.
- Processed TMDB metadata to extract key features (genres, keywords, overview) for accurate recommendation matching.
- Integrated TMDB API for dynamic poster retrieval and implemented autocomplete for enhanced UX.
- Containerized and deployed using Docker and Gunicorn for scalable production serving.

Customer Segmentation Using K-Means Clustering | Python, Scikit-learn, Pandas, Matplotlib, Seaborn, Streamlit

- Built an end-to-end customer segmentation system using K-Means clustering to identify actionable behavioral groups.
- Performed data cleaning, feature scaling, and selection for robust clustering outcomes.

- Used Elbow and Silhouette methods for optimal cluster validation and model interpretability.
- Created an interactive Streamlit interface to visualize clusters and generate data-driven marketing insights.

Predicting Diabetes with Logistic Regression | Python, Scikit-learn, Pandas, Seaborn, Flask

- Developed a logistic regression-based predictive model for assessing diabetes risk from patient health data.
- Performed data preprocessing, outlier handling, and feature engineering to improve accuracy and stability.
- Trained and validated models with feature scaling and class balancing to enhance prediction reliability.
- Integrated model inference into a Flask-based web app for real-time health risk assessment and interpretability.

ACHIEVEMENTS & CERTIFICATIONS

Complete Data Science, Machine Learning, Deep Learning, and NLP Bootcamp – Udemy course by Krish Naik; covered end-to-end data science pipelines, model deployment, and NLP techniques. 2025

Machine Learning, Deep Learning, and RAG Frameworks Course – Conducted by Abinash Pant (AI/ML Engineer); focused on building intelligent agents with LangGraph, Agno, and Retrieval-Augmented Generation (RAG) architectures. 2025

Mentor – Chitwan Utsav 2.0 Hackathon– Guided participants in designing AI-driven solutions and integrating ML models into functional prototypes. 2025

Hackathon Winner – United Technical College – Recognized for excellence in innovation, technical problem-solving, and teamwork among top par ticipants. 2024

नेपाल सरकार
गृह मन्त्रालय
जिल्ला प्रशासन कार्यालय तनहुँ

नेपाली नागरिकताको प्रमाणपत्र

जि.प्र.नं. : ४३-०१-७८-०४२५०

नाम थर:	अरुण पाण्डे लौडारी		लिङ्ग : पुरुष
जन्म स्थान:	जिल्ला : तनहुँ		
	न.पा. : भानु		वडा नं. :१०
स्थायी बासस्थान:	जिल्ला : तनहुँ		
	न.पा. : भानु		वडा नं. :१०
जन्म मिति:	साल: २०६० महिना: ०७ गते: १७		
बाबुको नाम थर :	गोपी प्रसाद पाण्डे लौडारी	ना.प्र.नं.:	
ठेगाना :	भानु न.पा.-१०, तनहुँ		ना. कि.: वंशज
आमाको नाम थर:	लक्ष्मी पाण्डे लौडारी	ना.प्र.नं.:	
ठेगाना :	भानु न.पा.-१०, तनहुँ		ना. कि.: वंशज
पति/पत्नीको नामथर :	XXX	ना.प्र.नं.:	
ठेगाना :			ना. कि.:

प्रशासकीय अधिकृत

Government of Nepal has issued this Citizenship Certificate with following details.

Citizenship Certificate No.:	43-01-78-04250		Sex: Male
Full Name.:	ARUN PANDEY LAUDARI		
Date of Birth (AD):	Year:2003	Month:NOV	Day:03
Birth Place:	District: Tanahun		
	Municipality : Bhanu		Ward No.:10
Permanent Address:	District: Tanahun		
	Municipality : Bhanu		Ward No.:10

नेपाल नागरिकता ऐन २०६३ बमोजिम यो नागरिकताको प्रमाणपत्र दिइएको छ ।
नागरिकता किसिम: वंशज
प्रमाण पत्र बाहकको दस्तखत :
(दाँया) को छाप (बायाँ)

प्रमाण पत्र जारी गर्ने अधिकारीको
दस्तखत :
नाम थर :ऋषि राम सुवेदी
दर्जा :प्रशासकीय अधिकृत
जारी मिति : २०७८-०७-११

प्रशासकीय अधिकृत

यो [illegible] प्रशासन कार्यालयमा वा प्रहरी कार्यालयमा बुझाईदिनुहोला ।

Issue No.: 04-064763

NEB Registration No.: 773558120

GOVERNMENT OF NEPAL

NATIONAL EXAMINATIONS BOARD

Academic Transcript

T0169413

School Leaving Certificate Examination (Grade XII)

Name of Student : ARUN PANDEY LAUDARI

Date of Birth : 2060/07/17

School : AROMA ENGLISH SECONDARY SCHOOL, BHARATPUR, CHITWAN

Subject Code	Subjects	Credit Hour	Grade Point	Grade	Final Grade	Remarks
004	COMPULSORY ENGLISH	4.69	2.4	C+	C+	
006	COMPULSORY NEPALI	4.69	3.2	B+	B+	
210	PHYSICS (TH)	4.69	3.6	A	A+	
211	PHYSICS (PR)	1.56	4.0	A+		
212	CHEMISTRY (TH)	4.69	4.0	A+	A+	
213	CHEMISTRY (PR)	1.56	4.0	A+		
216	MATHEMATICS	4.69	3.6	A	A	
	Total	26.57	Grade Point Average (GPA): 3.43			
Additional Subject (Extra Credit)						

Year of Examination	Symbol Number
2078	23506842

Note: One Credit Hour Equals 32 Teaching Clock Hours

TH : Theory, **PR :** Practical

* The Student has completed the subject in more than one attempt.

Year of Completion : 2078 (2021)

Prepared by : 04-001

Date of Issue : 2078/10/11

Checked by (Section Officer)

Verified by (Deputy Controller)

Krishna Prasad Sharma

Controller of Examinations