

SHIRISH ACHARYA

Kathmandu, Nepal | +977 9861007611 | shirishacharya@gmail.com
[linkedin.com/in/shirish-acharya](https://www.linkedin.com/in/shirish-acharya) | shirishacharya.com.np | github.com/ShirishAcharya

EDUCATION

Advanced College of Engineering and Management, Kathmandu
B.E. in Computer Engineering

Completed June 2025

TECHNICAL SKILLS

Languages: Python, SQL
Frameworks: FastAPI, Streamlit
Developer Tools: Git, GitHub, Jupyter Notebook
Databases: PostgreSQL, MySQL, SQLite
Libraries: Pandas, NumPy, Matplotlib
Concepts: REST APIs, Object-Oriented Programming, Machine Learning, Data Processing

EXPERIENCE

Software Engineer

Beyond Tech Nepal

Nov 2025 – Present

- Developed RESTful APIs using Python and FastAPI to handle structured data processing and backend operations.
- Designed modular, scalable components using object-oriented principles.
- Managed PostgreSQL databases including schema design and optimization.
- Built data validation and transformation pipelines for reliable processing.
- Collaborated with frontend teams to integrate backend services.
- Debugged production issues and optimized backend workflows to improve performance and reliability.

PROJECTS

VoiceMate – Voice-Controlled Chess Application

- Built a speech-to-text pipeline using 25,000+ audio samples.
- Implemented MFCC feature extraction and classification models.
- Designed modular pipelines for training and evaluation.
- Achieved accurate classification of chess moves using ML models.

Resume Ranker – AI Resume Screening Tool

- Developed NLP-based resume ranking using similarity scoring.
- Built preprocessing and evaluation pipelines in Python.
- Designed similarity-based ranking to improve candidate-job matching.

PromptPal – LLM Prompt Optimization Tool

- Developed a Streamlit-based web app for prompt refinement.
- Integrated external LLM APIs with secure configuration.
- Improved LLM response quality through structured prompt transformations.

PUBLICATIONS & RESEARCH

Comparison of Various Models in Text to Move Conversion of Chess Sentences

- Presented at SET Conference 2024 and Awarded Best Paper

LEADERSHIP & ACTIVITIES

Organizer, Aarambha 2024 – ACEM Technical Exhibition