

# Bishal Dhungana

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Aspiring AI & Automation Engineer | B.Sc. CSIT  
Final Year

## Professional Summary

Final-year B.Sc. CSIT student with a strong foundation in Software Development, AI Agents, and Workflow Automation. Passionate about building practical solutions using n8n and Python. While my background is rooted in AI, I am an aggressive learner currently upskilling in modern web frameworks like Next.js. I am eager to apply my logic and automation skills to build scalable products at AY Automate.

## Technical Skills

**Automation & AI** n8n, Zapier, AI Agents, REST API Integration, Web Scraping, OpenAI API

**Languages** Python (Advanced), SQL, Next.js, C/C++, HTML/CSS

**Data Science** Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib

**Tools & Dev** Git/GitHub, Linux, VS Code, Postman

## Projects

### AI-Powered Voice Command Agent, *Academic Project*, Python

- Developed a functional AI agent using `speech_recognition` and `pyttsx3` libraries to interpret natural language commands.
- Engineered logic to automate system tasks such as opening applications, fetching real-time news via APIs, and managing scheduling/reminders.
- Designed a modular structure allowing for easy integration of new "skills" or tool definitions.

### Salon Management System, *Final Year Project*, barbermanagement.bishal.site

- Built a comprehensive management software solution to digitize barbershop operations.
- Implemented features for appointment scheduling, customer management, and billing/invoicing.
- Designed a relational database schema (SQL) to handle transaction records and user data efficiently.
- Focused on creating a user-friendly interface for non-technical staff.

### Automated Data Collection Pipelines, *Personal Project*, Python

- Engineered automated scripts using BeautifulSoup and Requests to extract structured data from multiple target websites.
- Built error-handling mechanisms to ensure pipeline reliability during network fluctuations.
- Cleaned and normalized raw data into CSV/JSON formats for downstream analysis or database insertion.

### Chess Manager, *Personal Project*, chessmanager.online

- Developed a web-based application to digitize chess tournament operations, automate player pairings, and track match histories.
- Implemented features for player registration, dynamic tournament brackets, and real-time leaderboard updates.
- Architected a structured database to securely and efficiently manage user profiles, statistics, and Elo ratings.

## Education

2022–Present **B.Sc. in Computer Science and Information Technology (CSIT)**, *Patan Multiple Campus*, Lalitpur  
Focus: Artificial Intelligence, Software Engineering, and Database Management Systems.

2020–2022 **+2 Science**, *Trinity International College*, Kathmandu

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## Certifications

2025 **TensorFlow: Basic to Advanced Training**, Udemy

2024 **Machine Learning with Python**, IBM