UNIQUE ADHIKARI

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Technical Skills

Languages and Libraries: Python, Pandas, Numpy, Scikit-Learn, Matplotlib, Seaborn, TensorFlow, Keras

Database: MySQL, PostgreSQL, MongoDB

Tools & Technologies: Jupyter Nootbook, Git, Tableau, Excel

Machine Learning: Supervised & Unsupervised, Regression, Classification, Clustering

Other Skills: Data Visualization, Statistical Analysis, Problem Solving

Education

Tribhuvan University **Mar 2022 – Mar 2026**

Bachelor of Science in Computer Science and Information Technology *Bharatpur, Nepal*

- Relevant Courses: Data Structures, Algorithms, Artificial Intelligence, Statistics, Database Management System
- Academic Projects: Ecommerce Web-Application, Project-RED

Experience/Projects

Data Science with GenAI - Innomatics Research Labs - Hyderabad, India **Sep 2024 – Dec 2024**

(Internship)

- **Problem Solving using Python Programming**: Achieved a 5-star Python badge on HackerRank by solving 50+ challenging problems, showcasing strong problem-solving and Python programming skills.
- **Data-Driven Insights for Pizza Store Operations**: Improving delivery performance and revenue management.
- **Blog Publications**: Published highly engaging blog posts on "How Search Engines Understand and Delivers Result" and "Evolution of Language Representation Techniques"
- **Building Apps Powered by RAGs**: Developed a RAG system using the LangChain framework, integrating the capabilities of LLMs like Gemini 1.5 Pro with external data sources to enhance information retrieval and generation.
- **AI Powered Solution for Assisting Visually Impaired Individuals**: Developed a Generative AI-powered app for visually impaired individuals using LangChain, Streamlit, and Google Generative AI, enabling real-time scene understanding, TTS, and obstacle detection.

Drishti Saarathi **Nov 2023**

Personal Project

- Developed a Python-based **automation script** for sending pre-defined messages repeatedly using **PyAutoGUI** for GUI automation.
- Integrated **Gemini AI** for scene descriptions, using image analysis to generate detailed narratives for users.
- Implemented **Tesseract OCR** to extract text from images and **gTTS** to convert the extracted text or scene descriptions into speech.
- Created a user-friendly interface, allowing users to upload images, interact with various features, and download speech outputs in MP3 format.
- Enabled enhanced accessibility for visually impaired individuals by combining AI-driven image description and text-to-speech features.

BakBak AI **Nov 2024**

Personal Project

- Designed and developed **BakBak AI**, an entertaining chatbot that interacts with users in **Romanized Nepali**, incorporating humor, gossip, and casual conversation for user engagement.
- Leveraged **Google Generative AI (Gemini 1.5 Pro)** to implement an advanced conversational model, ensuring realistic and contextually appropriate responses.
- Integrated the system with **Streamlit**, creating an intuitive and interactive user interface for seamless chatting experiences.
- Configured a unique chatbot personality with a fun and gossip-oriented tone, incorporating **emojis** and adhering to custom behavioral rules.
- Emphasized ethical development by ensuring the chatbot complies with user-friendly and respectful engagement practices.
- Highlighted potential applications in **entertainment**, **language learning**, and **regional cultural integration** for AI-powered tools.

3ntry C0unter **Jun 2024**

Personal Project

- Built a **real-time people counting system** using computer vision to track individuals entering through a door.
- Leveraged **YOLOv8s (You Only Look Once)** for object detection and tracking, ensuring high accuracy and efficiency in identifying and counting individuals.
- Fine-tuned **COCO dataset labels** to optimize detection performance for the specific use case.
- Designed a modular architecture for seamless processing of real-time video streams and accurate entry counts.

Info Hunt **May 2024**

Personal Project

- Developed a robust **web scraping tool** to gather, process, and organize data from various online sources efficiently.
- Optimized the system for efficient data handling, leveraging **Python libraries** such as **BeautifulSoup** and **Requests**, and maintained modularity with a clean codebase.
- Demonstrated the solution's applicability in automating data aggregation for analytics, research, and market trend tracking.
- Designed a modular architecture for seamless processing of real-time video streams and accurate entry counts.

Auto Message **Sep 2023**

Personal Project

- Developed a Python-based **automation script** for sending pre-defined messages repeatedly using **PyAutoGUI** for GUI automation.
- Implemented a loop-based mechanism to send messages efficiently, simulating keyboard typing and key presses.
- Incorporated **time management functions** to control execution flow, ensuring smooth operation and accurate timing.