SANDESH BHATTA

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SUMMARY

Engineering undergraduate at Tribhuvan University combining Python, machine learning, and IoT to build practical solutions. Experienced in classification models, data analysis, automation workflows, and embedded systems. First-generation engineer bringing resilience, problem-solving mindset, and drive to contribute to impactful technology projects.

EDUCATION

Advanced College of Engineering and Management (Tribhuvan University) Kathmandu, Nepal
Bachelor of Engineering in Electronics, Communication & Information Technology 2024 – Present

Relevant Coursework: Data Structures, Algorithms, Computer Organization, Numerical Methods, Digital Logic, Circuit Design

Morgan International College Kathmandu, Nepal
Higher Secondary Education (+2) in Science 2022 – 2023

TECHNICAL SKILLS

Programming Languages: Python, C, C++, HTML, CSS, JavaScript
Data Science & ML: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, Regression Analysis, Feature Engineering
Automation & AI: Selenium, BeautifulSoup, n8n (AI Agents & Workflow Automation), ChatGPT, Prompt Engineering
Databases: SQLite, SQL
Hardware & IoT: Arduino, Raspberry Pi, Sensors, Actuators, Embedded Systems, Circuit Design
Design & Tools: Fusion 360, Figma (UI/UX), Tkinter, Adobe Photoshop, Canva, 3D Printing
Developer Tools: Git, GitHub, Google Colab, Jupyter Notebook, Visual Studio Code

PROJECTS

School Result Management System | *Python, Tkinter, SQLite* | GitHub

- Engineered GUI-based system managing 500+ student records with secure authentication and automated report generation
- Implemented CRUD operations with SQLite database, reducing manual data processing time by 70%

Modern Smart Agriculture IoT System | *Arduino, C++, Sensors, Embedded Systems*

- Developed real-time monitoring system using soil moisture and weather sensors with automated irrigation control
- Optimized water consumption by 40% through sensor-driven decision logic and embedded system integration

Diwali Sales Analysis | *Python, Pandas, Seaborn, Data Visualization*

- Analyzed 10,000+ sales transactions identifying customer behavior patterns and regional trends for business insights
- Applied statistical analysis and machine learning techniques for sales forecasting and trend prediction

Telegram-Based AI Agent | *n8n, Workflow Automation, API Integration*

- Built voice-triggered assistant integrating news APIs, email automation, and task execution via Telegram commands
- Reduced manual task processing by 60% through intelligent workflow automation and scheduled operations

AI-Powered Chatbot | *Python, TensorFlow, NLP*

- Developed conversational agent using TensorFlow for intent classification achieving 85% accuracy on test data
- Implemented natural language processing pipeline for user interaction and response generation

WhatsApp Chat Automation | *Python, Selenium, Web Automation*

- Automated messaging workflows handling 100+ scheduled messages daily with error handling and retry logic

CERTIFICATIONS

- **Supervised Machine Learning: Regression & Classification** – DeepLearning.AI & Stanford University (2025)
- **ChatGPT Prompt Engineering for Developers** – DeepLearning.AI (2025)
- **AI for Everyone** – DeepLearning.AI (2025) | **What Is Generative AI?** – LinkedIn Learning (2025)
- **HP LIFE Ambassador** (2025) – Recognized for technical leadership and community engagement
- **Introduction to Image Generation** – Google Cloud Skills Boost (2025)
- **Python with Data Science** – Tech Axis (2025) | **UI/UX Design with Figma** – RIU (2024)
- **Cyber Security Awareness** – HP LIFE (2025) | **3D Printing** – HP LIFE (2025)

LEADERSHIP & ACTIVITIES

- **HP LIFE Ambassador:** Promoted digital learning programs and empowered peers through technical advocacy