BARSHA BHUSAL

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PROFESSIONAL SUMMARY

AI and ML enthusiast with hands-on experience in building machine learning models, deep learning applications, and data-driven solutions. Skilled in developing healthcare AI systems, recommendation engines, and NLP tools. Passionate about applying practical AI to solve real-world problems and continuously expanding technical expertise.

SKILLS

Programming: Python, Java, SQL
Machine Learning & AI: Scikit-learn, TensorFlow, Keras, PyTorch, CNN, RNN, Transformers, Recommendation Systems
Data Science: Pandas, NumPy, Feature Engineering, Data Cleaning, EDA, Data Visualization
NLP: Hugging Face, Sentiment Analysis, Chatbots
Computer Vision: OpenCV, Image Classification, Object Detection
Soft Skills: Analytical Thinking, Problem-Solving, Teamwork & Collaboration, Adaptability & Flexibility

WORK EXPERIENCE

AI Intern — BlueFox Pvt. Ltd (August – November 2024)

-Built content-based, collaborative, and hybrid movie recommendation systems using Python, Scikit learn, Pandas, and Streamlit.

- Build chatbot using LLMs, Hugging Face, and RAG

PROJECTS

Data Science Salary Analysis
- Analyzed global salary datasets to uncover trends across roles, experience levels, and regions using Python-based EDA. **Project Link**

Genetic Disorder Prediction Using ML
-Implemented ML models (Random Forest, Logistic Regression, and Decision Tree) to accurately predict genetic disorders such as Autism, Down syndrome and more. **Project Link**

Parkinson's Disease Detection Using Handwriting Patterns and Deep Learning
-Detect early signs of Parkinson's disease by analysing handwriting patterns using deep learning (CNN) to detect handwritten patterns, including real-time webcam prediction. **Project Link**

Adaptive Chatbot Development
-Created an adaptive chatbot capable of learning from user interactions using python and streamlit. **Project Link**

Movie Recommendation System
-Built a hybrid recommendation engine combining content-based filtering, collaborative filtering, and cosine similarity. Developed a Streamlit interface to provide a seamless, user-friendly movie recommendation experience. **Project Link**

EDUCATION

BSc (Hons) Computing with Artificial Intelligence **2022-2025**

– Islington College, London Metropolitan University

SLC, Tilottama Campus, Butwal **2022**

SEE, Paramount Boarding High School, Rupandehi **2020**

TRAINING & CERTIFICATIONS

Full Stack Development & Data Structures & Algorithms – ApnaCollege

Deep Learning Specialization – Coursera (Ongoing)

NLP with Transformers – Hugging Face (Ongoing)