

KOSHISH SHRESTHA

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About Me

AI/ML Engineer specializing in machine learning, deep learning, generative AI, including RAG-based agents and LLM-driven workflows. Developing scalable, reliable, and human-centered intelligent solutions across domains including automation, analytics, and decision- support systems. Backed by a solid Computer Engineering foundation with a Bachelor's degree from Tribhuvan University, I aim to contribute impactful, research-driven innovations.

Education

Kathmandu Engineering College

Bachelor of Computer Engineering

(Aggregate Percentage: 81.27%)

2019 – 2024

Kalimati, Kathmandu

Skills

Programming & Data: Python, SQL, NumPy, Pandas, Scikit-learn, DVC

Machine Learning Techniques: Exploratory Data Analysis (EDA), Feature Engineering , Predictive Modeling, Model Evaluation, Time Series Forecasting

Deep Learning & Generative AI: PyTorch, TensorFlow, Transformers, BERT, Large Language Models (LLMs), Prompt Engineering, Retrieval-Augmented Generation (RAG), Agentic Workflows, LangChain

MLOps & Deployment: FastAPI, Docker, MLflow, LangFuse, Airflow, Model Monitoring, CI/CD Fundamentals

Tools: AWS (Foundational), Git, GitHub, BitBucket, Linux, Jira

Soft Skills: Leadership, Team Collaboration, Problem Solving, Self-Learner

Experience

Machine Learning Engineer II @ GritFeat Solutions

August 2024 – Present

- Developed and deployed predictive and time series forecasting models for business-critical applications, driving data-informed decision-making through accurate demand and trend predictions.
- Applied Large Language Models (LLMs) such as GPT in client-facing projects to solve complex, real-world challenges and demonstrate expertise in cutting-edge ML technologies.
- Collaborated cross-functionally with product, data, and engineering teams to align AI initiatives with strategic business objectives, improving system reliability and project efficiency.
- Mentored junior engineers and research fellows, providing technical guidance and fostering a culture of learning and innovation within the team.

Associate Machine Learning Engineer @ GritFeat Solutions

July 2024 – July 2025

- Developed and deployed end-to-end conversational AI and recommendation systems using LLM-based retrieval-augmented generation (RAG), advanced prompt engineering, and containerized microservices for scalable, context-aware interactions.
- Applied feature preprocessing techniques including data cleaning, scaling, and transformation to improve model performance.
- Contributed to AI research and development initiatives by exploring emerging Generative AI frameworks and foundation models, and assisting senior engineers in building proof-of-concept prototypes.
- Implemented robust model monitoring pipelines to track performance, response quality, and system reliability, ensuring stable production deployments and continuous optimization.

Machine Learning Fellow @ GritFeat Solutions

April 2024 – July 2024

- Gained hands-on experience across the full machine learning lifecycle, including data preprocessing, model training, evaluation, and deployment.

Publications

Comparison Analysis of Nepali News Classifier

- Authored and presented the paper on OKRP conference and published in the KEC Journal. [Paper Link](#)

Personal Projects

KaanunSathi

RAG, RAPTOR, LangChain, LLM

- Designed a retrieval-augmented generation (RAG) system to provide accurate, context-aware responses from Nepali legal documents.
- Implemented advanced document chunking and retrieval strategies (RAPTOR) to improve response relevance and latency.

Nepali News Classifier

Python, NLP, BERT, Transformers

- Performed comparative analysis of ML and deep learning models, optimizing classification accuracy through feature engineering and preprocessing.
- Implemented data preprocessing, visualization, and analysis techniques to enhance model performance.
- Built the classifier in PyTorch using the NepBERT model from Hugging Face.

Automatic Video Captioning

Python, FastAPI, Streamlit, OpenAI Whisper

- Built a full-stack video captioning tool to automate subtitle generation and enable real-time transcription editing.

Activities

Student Lead @ PALS

September 2023 – May 2024

- Enriched my skills in leadership, teamwork, collaborations and work ethic under guidance of IIT Alumni Champions.
- Attended IIT Madras for special programs and events, demonstrating a commitment to expanding knowledge and networking opportunities.
- Collaborated with IIT alumni at PALS to promote responsible technology innovation among South Asian student networks.

President @ KEC IT Club

2021 – 2024

- Lead team of I.T Club in all sectors.
- Represented the club in different coding competitions, hackathons etc. organized by other colleges and organizations.

Content Creator @ YouTube

2017 – Present

- Travelling and creating contents on my own.

College Representative @ Engineers Vlogs

- Played a key role as a member of the organizing team for Orbit Engineering Expo 2022 and handled entire robotics section during the expo.

Certifications and Course Reviewed

Data Scientist Associate - DataCamp [\[Link\]](#)

AWS Cloud Quest: Generative AI Practitioner - Training Badge [\[Link\]](#)

AWS Cloud Quest: Cloud Practitioner - Training Badge [\[Link\]](#)

Resident Student Workshop: Think, Create, Engineer - IIT, Madras

December 2023

- Achieved first place in the implementation of a 'StormWater Drain Blockage Detection System' as part of a mini project. Led a team to design and execute the project, demonstrating problem-solving skills and technical competence.
- Engaged in a dynamic workshop at IIT Madras focused on fostering creative thinking and engineering skills. Explored System Thinking Sustainability, Design Thinking and various concepts.

HEX Genius Hackathon

July 2023

- Developed a web application that facilitates direct communication between local bodies and government entities.
- Implemented an issue resolution system where unresolved issues are automatically escalated to higher authorities. Also incorporated an upvote system and other features to enhance user engagement and feedback.
- Utilized the MERN stack for the project.

Python for Data Science, AI and Development - IBM(Coursera)

HarvardX: CS50's Introduction to Programming with Python - CS50P — by Prof. David J. Malan

AWS Artificial Intelligence Practitioner Learning Plan - AWS Training and Certifications

Advanced Learning Algorithms - DeepLearning.AI (Coursera)

Supervised Machine Learning: Regression and Classification - DeepLearning.AI (Coursera)

End-to-End Machine Learning - DataCamp