

# Raktim Kalita

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## TECHNICAL SKILLS

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**Programming Languages:** Python, SQL, R

**Machine Learning :** NumPy, Pandas, Scikit-learn, Matplotlib ,XGboost , Seaborn

**Deep Learning Frameworks:** TensorFlow ,Keras, PyTorch

**Computer Vision:** OpenCV, Image Segmentation, Object Detection

**Generative AI:** Hugging Face, Transformers, Langchain, Prompt Engineering ,Ollama, Groq Cloud

**Libraries & Tools:** NLTK, Git, ,Streamlit, Gradio, Arduino,Docker, Jupyter Notebook, Kaggle, CUDA, YOLO, Anaconda, Weights & Biases

## PROJECTS

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### YouTube RAGbot - AI Video Analysis Tool

Feb 2025 – Apr 2025

Generative AI (RAG)

Python, Ollama, Groq Cloud, Streamlit, ChromaDB, YouTubeTranscriptApi

- Developed an **AI-powered video analysis tool** that enables users to chat with an AI about YouTube video content.
- Implemented a **complete RAG pipeline** with transcript fetching, text chunking, embedding generation, and vector storage.
- Built a **responsive web UI** with Streamlit featuring embedded video playback, chat history, and customizable parameters.

### Movie Recommendation System

Jun 2024 – Jul 2024

Machine Learning and Natural Language Processing Project

Python, Numpy, Pandas, Scikit-Learn, NLTK , Gradio

- Developed a recommendation system using **cosine similarity** to suggest movies based on user input.
- Utilized **Natural Language Processing (NLP)** and **machine learning** to analyze movie descriptions and genres.

### Email Spam Detection using Naive Bayes Classifier

Apr 2024 – Apr 2024

Machine Learning

Python,Numpy, Pandas, Scikit-Learn , NLTK, Matplotlib , Seaborn

- Built a spam classifier using **Naive Bayes** to identify fraudulent emails.
- Achieved high accuracy by pre-processing text data and applying feature engineering techniques.

### Handwritten Digit Recognition Model

Dec 2024 – Jan 2025

Deep Learning

Python,Numpy, Pandas, Matplotlib , TensorFlow, Keras, OpenCV

- Developed a **Convolutional Neural Network (CNN)** using TensorFlow to recognize handwritten digits.
- Trained on the **MNIST dataset** with high accuracy using deep learning techniques .

## EDUCATION

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### NIMS University

B.Tech in Artificial Intelligence And Machine Learning

Jaipur, Rajasthan, India

September 2022 – Present

### Kendriya Vidyalaya No.2 Itanagar

Secondary Education

Itanagar, Arunachal Pradesh , India

April 2010 - June 2022

## CERTIFICATIONS & ACHIEVEMENT

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### Advanced Learning Algorithms

•DeepLearning.AI, Coursera, Stanford CPD, UVM

### Supervised Machine Learning: Regression and Classification

•DeepLearning.AI, Coursera, Stanford CPD, UVM

### Data Visualization with R

•Cognitive Class

### ITTCP , 2024 Second Place

•Siemens Healthineers