

# Aman Kumawat

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## EDUCATION

**Malaviya National Institute of Technology**  
Bachelor of Technology Mechanical Engineering

Jaipur, Rajasthan  
Aug 2021 - Jun 2025

## WORK EXPERIENCE

**MoveInSync (MIS)**  
Machine Learning Intern

Bengaluru, Karnataka  
Apr 2025 - Present

- Developed an agentic flow for a support bot targeting the employee scheduling area, improving scalability as the AI intelligently decides which information to check and actions to take.
- Implemented real-time error tracking using Raygun, enhancing debugging efficiency and system reliability for the support bot.

**Pratham Software (PSI)**  
Machine Learning Intern

Jaipur, Rajasthan  
May 2024 - Jul 2024

- Developed a search tool leveraging NLP using BERT embeddings, SQL Express database, and TTRSS to enhance email search capabilities, achieving 85-90% accuracy in retrieving emails with approximate search queries.
- Engineered a Cohere-based RAG system with LangChain integration to generate concise summaries and answer questions to optimise document and web content processing, achieving 60-70% question-answering accuracy (BLEU Score) with a 70% boost in content retention (ROUGE-Recall) by introducing chunk-based data summarization.
- Enhanced query-handling efficiency through workflow optimisation, reducing processing time by 80% in various tasks.

## PERSONAL PROJECTS

**Stock Trader Bot:**

Dec 2023

A stock trading bot that simulates trades based on historical market data.

[\[github/StockTrader\]](#)

- Designed a reinforcement learning-based stock trading bot that simulated trades using historical data, achieving an average return of 58% on a \$20,000 investment.
- Trained on 1,258 data points for companies like Apple, Motorola, and Starbucks.
- Integrated deep Q-learning model and Greedy Technique for buying and selling stocks

**Chatbot Model:**

Dec 2023

Chatbot that leverages Encoder-Decoder architecture.

[\[github/ChatBOT\]](#)

- Developed an encoder-decoder transformer chatbot using TensorFlow, trained on over 130,000 dialogue pairs from the Cornell Movie-Dialogs Corpus.
- Reached a performance accuracy of 36.5% by epoch 250 using limited resources.
- Based on "Attention is All You Need", leveraging self-attention and multi-head attention to enhance response generation.

## TECHNICAL SKILLS

- Programming Languages:** Python
- AI/ML Expertise:** Generative AI, Large Language Models (LLMs), RAG, Embedding Models, Fine-tuning
- Databases:** SQL, MongoDB, Pinecone, ChromaDB
- Web Framework:** FastAPI, Flask
- Machine Learning:** Supervised Learning, Unsupervised Learning, Reinforcement Learning, Feature Engineering, Model Optimisation, Statistical Learning and Data Science
- Deep Learning:** Neural Networks, Convolutional Neural Networks (CNN), Transformers, NLP and Computer vision
- Tools and Libraries:** TensorFlow, NumPy, Scikit-learn, Pandas, Matplotlib, Langchain, langGraph Huggingface, n8n
- Version Control:** Git, GitHub
- Soft Skills:** Problem-solving, Adaptability, Leadership, Communication, Time Management and Collaboration
- Area of Interest:** AWS, Generative AI (GPT, Claude, fine-tuning), MLOps

## LEADERSHIP / EXTRACURRICULAR

- Technical Team Executive**, Cultural Society MNIT Sep 2022 - Aug 2023
- Executive**, Photography Club Nov 2022 - Sep 2023
- Web Portal Team Member**, MNIT Jaipur Alumni Association Aug 2022 - Jul 2023
- Member of Suspension and Handling Team**, SAE Collegiate Club Nov 2022 - Aug 2023