

# Rohit Kulkarni

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Available: 05/01/2025 to 12/01/2025

## EDUCATION

**Northeastern University**, Boston, MA Sept. 2024 – Present  
**Khoury College of Computer Sciences** Expected graduation: May 2026  
Candidate for a Master of Science in Computer Science GPA: 3.5/4.0  
Related courses: Programming Design Paradigm, Algorithms, Foundations of AI, Database Management

**Pune Institute of Technology**, Pune, India May 2024  
Bachelor of Engineering in Information Technology GPA: 9.36/10.0  
Related courses: Object Oriented Programming, Data Structures, Databases, Software Engineering, Machine Learning  
Cloud Computing, Big Data Analysis, Computer Architecture, Data Science, Operating Systems

## TECHNICAL KNOWLEDGE

**Languages:** Python, Java, C++, JavaScript  
**Databases:** MySQL, PostgreSQL, MongoDB, VectorDB  
**Frameworks :** PyTorch, Tensorflow, OpenCV, Langchain, Keras, Scikit-learn, HuggingFace, LlamaIndex, Streamlit, FastAPI, Spark ML, OpenGL, OpenCL, PySpark, Plotly, Hadoop, XG Boost  
**Tools:** VS Code, Docker, Containers, Databricks, AWS Bedrock, Jenkins, AWS Lambda, GitHub EC2, Git, AWS Sagemaker, Microsoft Office, Excel, Word, CAD, Tableau, Power BI, Postman

## WORK EXPERIENCE

**PostCare.AI**, Balitmore, MD Jan 2024 – July 2024  
AI Research Intern

- Built a healthcare chatbot using LLMs like Llama-3, BioMistral-7B, and BioMedLM, fine-tuning models with strategies like PEFT and QLoRA for optimized performance.
- Developed a dataset of 2000+ QA pairs and created a pipeline to query and retrieve personalized medical information
- Developed a REST API and implemented backend functionalities to display patient-centric data

**AlgoAnalytics**, Pune, India Oct 2023 – Dec 2023  
Data Science Intern

- Developed a Python-based tool to scrape and analyze over 100 financial news articles daily using newspaper3k and Google News API, spanning up to 12 months.
- Used FinBERT for sentiment analysis, and achieved 96% accuracy in categorizing articles as positive, negative, or neutral and implemented a Pandas data frame to organize and present data effectively.

**Cummins**, Pune, India July 2023 – Oct 2023  
Software Engineering Intern

- Utilized Docker to create and manage containerized applications to develop software solutions in C++.
- Utilized GoogleTest and Unittest to design and execute test cases. Analyzed and wrote Python scripts, in addition

## PROJECTS

**Neural Machine Translator**, Language Translation Model Jan 2024  
• Built an LSTM and Leaky GAN-based Neural Machine Translation model to translate English to German, trained on 50,000 sentence pairs, achieving a BLEU score of 18.5 and processing 8-10 word sentences in under 2 seconds.

**BlogForge AI**, Generative AI Project May 2023  
• Built an end-to-end AI application on AWS for automated blog generation integrating Amazon Bedrock, Lambda, API Gateway, and S3, ensuring secure storage and robust error handling.  
• Enhanced performance and scalability by monitoring and optimizing the application with CloudWatch.

## INTERESTS/ACTIVITIES

- Participated in a project, 'Bringing Human Rights to Life through Theatre' held by Socrates Foundation- Pune
- Secured 'sehr gut' (very good) grade in 'Fit in Deutsch 1' exam - Goethe Institute, Pune
- Participated in 'AISoMe' Machine Learning competition - Online
- Participated in a hackathon, 'Techno Thrive' on Generative AI by YASH Technologies Pvt. Ltd.- Online