





Radhakrishnan A

Generative AI Engineer & Data Scientist

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Professional Summary

Passionate Generative AI Engineer and Data Scientist with expertise in developing cutting-edge AI solutions. Specialized in large language models (LLMs), natural language processing, and machine learning applications that solve real-world problems. Proven track record of creating sophisticated AI systems including medical chatbots, source code assistants, and recommendation engines. Combines technical expertise with a deep understanding of user needs to build AI solutions that are both powerful and intuitive.

Skills

Technical Skills

- **AI & Machine Learning:** Large Language Models (GPT-4, LLaMA, Mistral), RAG Systems, Vector Databases
- **Programming Languages:** Python, JavaScript, SQL
- **Frameworks & Libraries:** PyTorch, TensorFlow, Hugging Face, Scikit-learn, Pandas, NumPy
- **Web Development:** HTML, CSS, React, Flask
- **Tools & Platforms:** Docker, Git, AWS, Azure, n8n Automation
- **Data Analysis:** Statistical Analysis, Data Visualization, Predictive Modeling

Soft Skills

- Problem-solving
- Critical thinking
- Communication
- Project management
- Team collaboration

- Continuous learning
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Education

Executive Post Graduate Certificate Program in Data Science & Artificial Intelligence

IIIT-Bangalore & upGrad | May 2024 - Specialized in Data Analysis & Visualization, Machine Learning & Deep Learning - Statistical Modeling & Predictive Analytics, AI-driven Problem Solving & Decision Making

DSC 68 5706 Cohort Bootcamp

upGrad | 2024 - Intensive training in practical data science applications - Hands-on experience with real-world datasets and data-driven decision making

Professional Experience

AI Engineer

AI Solutions Inc. | January 2023 - Present - Developed and deployed RAG-based document chatbots that improved information retrieval efficiency by 40% - Implemented vector database solutions for semantic search capabilities across multiple client projects - Created and fine-tuned LLMs for domain-specific applications in healthcare and finance - Collaborated with cross-functional teams to integrate AI solutions into existing business workflows

Data Scientist

Data Insights Ltd. | June 2021 - December 2022 - Conducted exploratory data analysis and built predictive models for client projects - Developed NLP solutions for text classification and sentiment analysis - Created data visualization dashboards to communicate insights to stakeholders - Optimized machine learning models, improving performance by 25%

Projects

AI-Powered Document Chatbot

- Developed a chatbot using Retrieval Augmented Generation (RAG) to answer questions from PDFs, transcripts, and code repositories
- Implemented vector embeddings for efficient semantic search
- Technologies: Python, LangChain, OpenAI, Pinecone

Medical Document Analyzer

- Created an NLP system that extracts key medical information from clinical notes and research papers
- Achieved 92% accuracy in identifying critical medical entities
- Technologies: Python, spaCy, Hugging Face Transformers

Visual Question Answering System

- Built a multimodal AI that answers questions about images using vision-language models
 - Integrated with web applications for seamless user experience
 - Technologies: Python, PyTorch, CLIP, Streamlit
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Certifications

- Executive Post Graduate Certificate in Data Science & Artificial Intelligence (IIIT-Bangalore & upGrad)
 - DSC 68 5706 Cohort Bootcamp Certificate (upGrad)
 - Machine Learning Specialization (Coursera)
 - Deep Learning Specialization (Coursera)
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Languages

- English (Professional)
 - Tamil (Native)
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References available upon request