

AMRESH KUMAR YADAV

Data Scientist | Generative AI Specialist

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Portfolio | LinkedIn | GitHub

Professional Summary

Data Scientist at ITC Infotech with expertise in Generative AI and Machine Learning. Recognized with “Pat on the Back” award (Apr 2025) for innovative AI tools. Skilled in LLMs, embeddings, and MLOps for scalable solutions.

Technical Skills

- **Languages:** Python, Java, C++, SQL
- **AI/ML:** Generative AI, LLMs (GPT-3.5, Gemini), RAG, CAG, MLOps
- **Tools:** Streamlit, LangChain, FAISS, HuggingFace, Power BI, Tesseract OCR
- **Platforms:** Azure ML, Azure OpenAI, Google Gemini

Professional Experience

Data Scientist, ITC Infotech, Kolkata

Aug 2022 – Present

- Built **SLO Assistant** using GPT-3.5 and Azure ML to optimize ServiceNow data insights.
- Developed **Digital Research Assistant** with OpenAI LLMs and Streamlit for document analysis.
- Integrated AI tools with Power BI for enhanced enterprise decision-making.

Education

B.Tech, Computer Science, Assam University

2018 – 2022 | CGPA: 8.0

Higher Secondary, RK College, Madhubani

2015 – 2017 | CGPA: 7.5

Key Projects

- **Recruitment & Onboarding Assistant** (Mar 2024): Streamlit tool with Gemini API for resume parsing and hiring automation, reducing effort by 30%.
- **Medical Report Analyzer** (Apr 2024): LangChain and Gemini 1.5 app for medical PDF insights with RAG and Streamlit UI.
- **Chat Assistant with Image Extractor** (Mar 2024): Streamlit chatbot using Gemini and Tesseract OCR for image-based conversations.
- **PhD Research Guide Generator** (Mar 2024): Streamlit tool with Gemini and ReportLab for research roadmap generation.
- **Baby Care Assistant** (Apr 2024): Gemini-powered Streamlit app for personalized baby care tips.
- **Service Line Analytics** (Feb 2024): Azure ML models for enterprise data clustering and predictive analytics.
- **Digital Research Assistant** (Feb 2023): OpenAI LLM tool for document data extraction using Streamlit and Azure.
- **SLO Recommendation Assistant** (Jan 2025): GPT-3.5 tool with Azure for ServiceNow insights via CAG.
- **Pitch Deck Analyzer** (Mar 2025): Streamlit app with Gemini for pitch deck scoring and feedback reports.

Certifications & Achievements

- Pat on the Back, ITC Infotech, Generative AI (Apr 2025)
- Generative AI Certification (2023–2024)
- 5-Star Gold Badge, C++, HackerRank
- Rank 1, CodeChef March Challenge (2022)
- GATE 2023 Qualified, Computer Science

Leadership & Languages

- **Leadership:** International Service Director, RAC AUS (2021–2022); Member, Computer Society of India (2018–2020)
- **Languages:** English (Professional), Hindi (Native)