

# Santosh Kumar

AI/ML Engineer | Generative AI | Machine Learning | Data Science

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## Objective

AI/ML Engineer with strong foundations in Generative AI, Machine Learning, Deep Learning, and Data Science, trained under the Simplilearn + IBM AI Engineer Master's Program. Hands-on project experience in document Q&A, text-to-image generation, CRM automation, and computer vision. Strong problem-solving ability with eagerness to apply AI to real-world business challenges.

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## TECHNICAL SKILLS

- **Programming:** Python, C
  - **Data Science:** Python, Pandas, NumPy, SQL, Data Visualization (Matplotlib, Seaborn)
  - **Machine Learning:** scikit-learn (Pipelines, GridSearchCV), TensorFlow, Keras
  - **Generative AI:** LangChain, Retrieval-Augmented Generation (RAG), Agent Tools, OpenAI API
  - **Tools:** Git, VS Code, Google Colab, Hostinger
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## PROJECTS

- **Generative AI Q&A Bot (LangChain + RAG + OpenAI + FAISS)** – Implemented retrievalaugmented generation (RAG) pipeline with embeddings + vector search, improving document retrieval accuracy by 35%.
  - **Text-to-Image Generator (OpenAI API + Streamlit)** – Built a prototype for design industry use cases, automating creative image generation from text prompts.
  - **Boat Recognition System (CNN + MobileNetV2 + scikit-learn)** – Achieved 92% accuracy, optimized for mobile deployment
  - **Reddit User Persona Generator** - AI tool with PRAW & GPT-4 to extract Reddit personas in TXT, PDF, JSON.
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## EDUCATION

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| • <b>Bachelor's: Information Technology</b> -<br>United College of Engineering And Research, Prayagraj, Uttar Pradesh, India | 2020 -2024   CGPA : 7.19 |
| • <b>Intermediate (Class XII)</b> -<br>St Andrews Inter College, Gorakhpur, Uttar Pradesh, India                             | 2018 - 2020   72%        |
| • <b>High School (Class X)</b> -<br>UPSDD IC Bahuripar, Gorakhpur, Uttar Pradesh, India                                      | 2016 - 2018   84.33%     |
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## CERTIFICATIONS

- Master's Program – Artificial Intelligence Engineer (Simplilearn + IBM, 2024)
- Introduction to AI
- Data Science with Python
- Machine Learning
- Deep Learning with Keras & TensorFlow
- Advanced Deep Learning
- AI Capstone
- Advanced Generative AI
- C with HTML (Summer Training, 2021)