

Piyush Kumar

📍 New Delhi, India ✉ ai.piyushkumar0707@gmail.com ☎ 8076835316 🔗 in/piyushh-kumar07/ 🐙 /codewithpiyushh
📁 portfolio/aipiyushkumar0707

EDUCATION

Bachelor of Technology in Artificial Intelligence and Data Science 2022 – July, 2026
Guru Gobind Singh Indraprastha University, East Delhi Campus | CGPA: 7.179 / 10

Spring Meadows Public School, New Delhi 2019 – 2022
Class XII: 80% | Class X: 78%




SKILLS

- **Technical Skills:** Agentic AI, Generative AI, RAG, Machine Learning, Deep Learning, Natural Language Processing, MCP Server, LLMs, Fast API
- **Programming Languages:** Python, C++, Go Lang, PostgreSQL
- **Libraries/Tools:** TensorFlow, PyTorch, Scikit-learn, Seaborn, NLTK, Langchain, LangGraph, Pandas, NumPy, Matplotlib, Seaborn, NLTK, LangChain, Langflow, Streamlit, Flask, Power BI, Git, AWS, Render
- **Other Skills:** UI/UX Designing, Presentation, Leadership

EXPERIENCE

- Gen AI Intern, Ernst & Young, On-Site** (July 2025 - Oct 2025)
- Architected an end-to-end NLP pipeline and RAG-based retrieval system, improving information accessibility for 15+ research team members.
- Machine Learning Intern, Defense Research & Development Organization, Hybrid** (June - July 2025)
- A multi-agent reinforcement learning combat simulation with a PyQt5 GUI to train and visualize autonomous agents learning adaptive battlefield strategies.
- Data Analyst Intern, IBM Skillbuild, Remote** (June - August 2024)
- Data Analytics program covering Python/Excel-based analysis, data visualization, and project work with mentor feedback.

PROJECTS

- Bloom - Menopause Health Wellness Assistant**  Github
- An personalized, multi-agent AI wellness app for menopause support using React Native for the cross-platform mobile UI. The backend leverages a Python Flask server with LangChain and Google Gemini for intelligent, tailored health advice.
 - **Key Contribution:** Full-stack solution, from the React Native UI, and engineered the core multi-agent AI system using LangChain and Google Gemini to provide personalized, real-time health advice.
- LIVETRUTH: Real-Time Misinformation Detector**  Github
- Streamlined an Agentic AI architecture with RAG (Retrieval-Augmented Generation), featuring a dynamic knowledge base that scrapes and searches across 10+ sources using Firecrawl to assess reliability and generate confidence-based scores.
 - **Key Contribution:** Designed and implemented the Agentic AI framework with advanced prompt engineering, achieving up to 85% accuracy in real-time fact validation with a scalable Go Lang backend using JavaScript.
- INSPIREHER: AI Startup Guide for Women**  Github
- An AI-driven platform built to support rural women entrepreneurs through an AI chatbot, phone call assistance, and multilingual accessibility.
 - Programmed an LLM-based chatbot using Retrieval-Augmented Generation (RAG), reducing user query response time by 40% and increasing overall user satisfaction by 95%.

ACHIEVEMENTS

- **2nd Place Inter-National Winner** – First Runner-Up at the IMC Open Gateway Hackathon 2025.
- **4th Place National Winner** – TruthTell Hackathon and presenting the solution at the WAVES Summit 2025.
- **Top 50 Global Winner** – IBM TechXchange Hackathon 2025.
- **EY Techathon 5.0 Finalist** – Ranked among the top 11 teams nationally out of 150,000+ participants in EY Techathon 2025.
- **Amazon Sambhav Hackathon Semi-Finalist** – Ranked in the top 137 out of 107,000+ participants.