# Aryan Jain

Computer science student specializing in artificial intelligence with hands-on experience in machine learning and full-stack web development. Eager to apply theoretical knowledge to build scalable and intelligent solutions.


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## EDUCATION

**B. Tech. – Computer Science and Engineering**
NIIT University, Neemrana
*2022 - 2026*

## EXPERIENCE

**Artificial Intelligence Intern** (Remote)
Indian Institute of Technology Jammu
(June 2025 – July 2025)
Gained hands-on exposure to Large Language Models (LLMs), Generative AI, and Agentic AI, including architectures, fine-tuning, and deployment.

Explored and experimented with OpenAI and Gemini APIs as well as open-source pre-trained models using Hugging Face Transformer library to develop AI-powered applications.

Learned and implemented automation workflows using n8n for efficient AI model integration and deployment.

Completed a capstone project integrating LLMs, Agentic AI, and workflow automation.

## PROJECTS

**AutoML Hub**
(July 2025)
Developed an end-to-end AutoML platform using Gradio for UI and Gemini API for natural language interpretation of ML task descriptions, enabling users to build models by simply describing their goals.

Integrated dynamic model selection and pipeline creation using scikit-learn, XGBoost, and LightGBM for both classification and regression tasks, including automatic preprocessing, scaling, and label encoding.

Enabled model comparison and evaluation via interactive chat-based prompts, using metrics like classification reports and $R^2$/MSE, enhancing user control and transparency.

**Telegram Chatbot Powered by Mistral LLM**
(July 2025)
Developed a conversational Telegram chatbot using Aiogram and Python, integrated with the Mistral language model via the local Ollama API for real-time natural language interaction.

Implemented per-user session handling and message context retention, enabling continuous multi-turn conversations with context-aware responses.

Utilized asynchronous programming with aiohttp and streaming from the Mistral model, ensuring responsive, efficient communication and scalable bot performance.

**SeoInspect**
(July 2025)
Built a full-stack SEO analysis tool on Replit using React (TypeScript) and Express.js, enabling users to evaluate website SEO metrics including meta tags, Open Graph data, and preview search/social media snippets.

using Axios and Cheerio, delivering real-time, stateless analysis via RESTful API with JSON responses.

Designed modular frontend architecture with Wouter routing, TanStack Query for state management, and Shadcn/ui components styled with Tailwind CSS, optimized for fast builds with Vite.

**Voice-Activated Weather Assistant**
(July 2025)
Developed a voice-interactive weather information system using Vapi and n8n, enabling users to request weather updates through phone calls.

Integrated Google Gemini Chat Model for natural language understanding and OpenWeatherMap API for real-time weather data retrieval.

Automated the full workflow using n8n to process user input from webhooks, query external APIs, and return responses via voice in real time.

**Hybrid Intrusion Detection System for Cloud Environment** – 3 Months
(Feb 2025 – April 2025)
Developed a hybrid Intrusion Detection System (IDS) to detect network attacks in cloud environments trained on CSE-CICIDS2018.

The system combined deep learning models (Stacked Autoencoders, CNNs, LSTMs) with machine learning classifiers (Random Forest, XGBoost, Logistic Regression. Achieved 98.47% accuracy, 94.71% precision and 0.72% False Positive Rate.

**Gold ETF Price Prediction**
(Jan 2025 - Feb 2025)
Built and compared multiple regression models to predict gold prices.

The best performance was achieved using Extremely Randomized Trees ensemble learning algorithm with an $R^2$ score of 0.99 and Mean Squared Error (MSE) of 3.43, demonstrating high prediction accuracy.

**Steganography for Bank Account Credentials**
(Sep 2024 - Dec 2024)
Developed a steganography system to securely hide sensitive bank account data in image and audio files using the Least Significant Bit (LSB) technique.

The application was built with Flask, enabling a seamless user interface for data embedding and extraction.

## COURSES & CERTIFICATIONS

The MCP Course - Fundamentals of MCP | Hugging Face | Aug 2025
Hugging Face Agents: Fundamentals of Agents | Hugging Face | Aug 2025
The LLM Course - Fundamentals of LLMs | Hugging Face | Aug 2025
The LLM Course - Fine-tuning Language Models | Hugging Face | Aug 2025
Vibe Coding 101 with Replit | Deeplearning.ai | July 2025
How Transformer LLMs Work | Deeplearning.ai | July 2025

## SKILLS

Languages - Python, SQL, JavaScript

Machine Learning Tools - Scikit-Learn, TensorFlow, Keras, Pytorch, Hugging Face, Transformers, OpenCV, CrewAI

Data Analysis & Visualization Tools - NumPy, Pandas, Matplotlib, Seaborn

Machine Learning Skills - Supervised Learning, Deep Learning (CNN, RNN), Computer Vision, Hyperparameter Optimization

Web Development - MERN (MongoDB, Express.js, React.js, Node.js), HTML5, CSS3, Flask

Database Tools - MySQL, Oracle Database, MongoDB

Automation & Deployment Tools - N8N, Docker, Jenkins

## EXTRA-CURRICULAR

**Technical Team Volunteer - TEDxNIITUNIVERSITY**
Prepared website for providing technical support for this event execution.

**Technical Team Volunteer - siNUsoid**
Assisted in website creation and provided technical support for seamless event management.

**Communication Facilitator - NIIT Foundation**
Helped rural individuals improve English and communication skills for better career opportunities.

## PERSONAL INTERESTS

Passionate about coding, especially in python, where I find joy in solving complex problems and creating efficient solutions.

Enjoy immersing myself in books, especially within the realms of popular science. I'm captivated by the wonders of the cosmos, as explored by the insightful writings of Carl Sagan and Stephen Hawking. These interests inspire my curiosity and influence my work in technology and problem solving.