

Arjun Lakhanpal

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Objective

To contribute to innovative projects by leveraging expertise in AI and deep learning for real-world problem solving.

Education

Guru Gobind Singh Indraprastha University **New Delhi, India**

Bachelor's in Electronics and Communication Engineering (Minor in Computer Science Engineering)

Oct 2022 – Feb 2026

CGPA: 8

Relevant Coursework: Machine Learning, Operating Systems, Computer Networks, Digital Image Processing, Control Systems, Embedded Systems, VLSI Design, Signal Processing, Electromagnetics.

Experience

PocketFM — Software Engineer Intern (Backend)

July 2025 – Present

Built automated scripts and REST APIs for large-scale content crawling and ingestion across multiple platforms. Enhanced data accuracy with unit and integration tests, reducing content errors. Integrated **Datadog** and **AWS Powertools** for monitoring and logging, improving observability and cutting debugging time. Optimized backend workflows to boost scalability and reliability of content delivery.

Projects

CERN Dielectron Dataset Analysis

- Conducted end-to-end preprocessing, EDA, and visualization on CERN's dielectron dataset to extract meaningful correlations and physics-driven insights. **Technologies:** Python, Pandas, NumPy, Matplotlib, Seaborn

Metaverse Gaming Platform

- Built an immersive multiplayer platform with customizable avatars, 3D rendering, and real-time asset interaction using WebGL. **Technologies:** TypeScript, JavaScript, HTML, CSS, WebGL

Iris Flower Classification

- Developed a machine learning model to classify iris species with high accuracy using Logistic Regression, Decision Trees, and Random Forests. **Technologies:** Python, Scikit-learn, Pandas, Matplotlib

Technologies

Programming Languages:	Python, JavaScript, Java
Machine Learning & AI:	TensorFlow, PyTorch, Scikit-learn, XGBoost, Transformers, OpenCV
Frameworks:	Django, Node.js, React.js
Developer Tools:	Git, Docker, Datadog
Cloud Platforms:	Google Cloud Platform (GCP)
Specialization:	GenAI, Natural Language Processing (NLP), LLM

Certificates

- Neural Networks and Deep Learning — DeepLearning.AI** Gained practical knowledge of backpropagation, gradient descent, and building deep learning models.
- Building AI-Powered Games — DeepLearning.AI** Applied reinforcement learning techniques to create interactive AI-driven game environments.
- Machine Learning with Python — Udemy & freeCodeCamp** Learned supervised and unsupervised learning, model evaluation, and real-world Python ML applications.