

ARTI KUMARI

Curriculum Vitae · AI/ML Engineer | Data Science | Flutter | Generative AI

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PROFESSIONAL SUMMARY

AI/ML and Data Science candidate from Rajkot, India. B.Tech in Computer Engineering from RK University (2022-2026). M.Tech in progress at RK University (2026-2028). Also enrolled in IIT Delhi ADSAI Batch 04 (Certificate Programme in Applied Data Science & Artificial Intelligence: From Fundamentals to Deployment), coordinated by Prof. Ankur Gupta, CARE, IIT Delhi. In 2025, interned in AI/ML research at IIT Delhi under Prof. Tapan Kumar Gandhi. First author of an IJERCSE 2026 paper on Graph Neural Networks with data augmentation for single-channel EEG seizure classification (99.25% accuracy, 100% sensitivity). Also did a Data Science internship at Gatim AI Tech Innovations Pvt. Ltd. and Flutter work for live clients at Cipher Craft. Building LLM, RAG, and agent tools, including a live assistant at artikumari.me. Open to AI/ML, Data Science, Healthcare AI, and Flutter Developer roles with Generative AI applications.

CAREER HIGHLIGHTS

- First author of an IJERCSE 2026 paper from IIT Delhi: 99.25% accuracy and 100% sensitivity on single-channel EEG seizure detection.
- Enrolled in IIT Delhi Certificate Programme in Applied Data Science & Artificial Intelligence: From Fundamentals to Deployment (ADSAI Batch 04), coordinated by Prof. Ankur Gupta, CARE, IIT Delhi.
- Shipped 2+ live production mobile apps in Flutter for real clients (Construction Management, CRM, Trip Portal).
- Wrote GCN, RNN/LSTM, and CNN models in code, not only by calling APIs.
- Live Ask-My-AI assistant at artikumari.me (LLMs, RAG, agents, MCP).
- M.Tech in progress at RK University (2026-2028) after B.Tech Computer Engineering (2022-2026).

EDUCATION

M.Tech, Computer Engineering (Pursuing) · RK University, Rajkot **2026 - 2028**

M.Tech after B.Tech Computer Engineering. Focus on applied AI, machine learning, and data systems.

B.Tech, Computer Engineering · RK University, Rajkot · CGPA 8.18 **2022 - 2026**

Studied programming, DSA, and software. Path: web, C# / .NET, Python, React, Flutter, then deep-learning research at IIT Delhi. Also interned in Data Science and shipped mobile apps.

PROFESSIONAL CERTIFICATION

IIT Delhi - ADSAI Batch 04 (Pursuing) · CEP, IIT Delhi **Current**

Certificate Programme in Applied Data Science & Artificial Intelligence: From Fundamentals to Deployment (ADSAI Batch 04)

Indian Institute of Technology (IIT) Delhi · Continuing Education Programme (CEP) · Coordinator: Prof. Ankur Gupta, Centre for Applied Research in Electronics (CARE)

IIT Delhi CEP certificate on applied data science and AI, from basics to putting models into use. Coordinator: Prof. Ankur Gupta, CARE, IIT Delhi.

TECHNICAL SKILLS

Generative AI & LLMs	Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), AI Agents, Model Context Protocol (MCP), Prompt Engineering, Vercel AI SDK, Google Gemini API, Embeddings and Vector Search, streaming responses, answers grounded in documents
Machine Learning & Deep Learning	PyTorch, TensorFlow / Keras, Graph Convolutional Networks (GCN), GCN + SVM pipelines, RNN / LSTM, CNN, Neural Networks, Data Augmentation, scikit-learn
Data Science	Python, NumPy, Pandas, SQL, data cleaning, exploratory analysis, feature engineering, model training, evaluation (accuracy, sensitivity), and end-to-end ML workflows
Healthcare AI / Signals	Single-channel EEG, seizure classification, uneven class counts in EEG data, graph modeling of biomedical signals

Mobile Development	Flutter, Dart, State Management (Provider / Bloc), REST API integration, Firebase, role-based access, cross-platform iOS and Android
Web & Backend	React, Next.js, JavaScript / TypeScript, HTML / CSS, C# / .NET / ASP.NET, Node.js
Languages & Tools	Python, Data Structures and Algorithms, SQL, Git / GitHub, Data Science tooling

PROFESSIONAL EXPERIENCE

Flutter Mobile Application Developer · Cipher Craft Pvt. Ltd. 2025 - Present (1.5 years)

Mobile Engineering · Production client delivery

1. Construction Company Management & CRM

Situation	Construction and CRM clients still used paper and disconnected tools.
Task	Build mobile apps that match how those businesses actually work.
Action	Wrote Flutter/Dart apps with login roles, workflows, and REST APIs.
Result	Two live apps are in use: Construction Company Management and CRM.

2. Trip Portal - Admin app and Customer app

Situation	A travel product needed a separate admin app and a separate customer app.
Task	Build two Flutter apps, one for each role.
Action	Built the admin app and the customer app.
Result	Released two live Trip Portal apps.

3. Delivery under tight client timelines

Situation	More than one client app had short deadlines at the same time.
Task	Finish on time without messy code.
Action	Used Bloc/Provider, clear APIs, and AI coding help.
Result	Apps went out on schedule.

AI/ML Research Intern · Indian Institute of Technology (IIT) Delhi 2025

Department of Electrical Engineering · Mentor: Prof. Tapan Kumar Gandhi

1. Single-channel EEG seizure classification

Situation	Single-channel EEG labels were few and uneven across classes.
Task	Train a model that still detects seizures well.
Action	Treated EEG as graphs. Trained GCN + SVM and added extra training samples.
Result	99.25% accuracy and 100% sensitivity. First-author paper in IJERCSE (2026).

2. Research pipeline and first-author publication

Situation	The lab wanted models we could read and change, not only cloud APIs.
Task	Code GCN, CNN, and RNN/LSTM myself and write the paper as first author (3 authors).
Action	Built the pipelines, ran tests, and wrote the draft with Prof. Tapan Kumar Gandhi.
Result	Paper published in IJERCSE (2026). Work done at IIT Delhi, Electrical Engineering.

Data Science Intern · Gatim AI Tech Innovations Pvt. Ltd. 2023

Data Science · Python, ML modeling, analysis

1. End-to-end machine-learning workflow

Situation	Tables were messy and not ready for ML.
Task	Clean the data and train models.
Action	Cleaning, plots, features, training, and scoring in Python.
Result	Finished full Data Science projects and a workflow I could reuse.

2. Full supervised-learning loop

Situation	Work was more than one notebook cell.
Task	Cover the full train-and-test loop.
Action	Used Python libraries from cleaning through scoring.
Result	That internship later helped with IIT Delhi research.

RESEARCH & PUBLICATION

Graph Neural Networks with Data Augmentation for Single-Channel EEG-Based Seizure Classification

Published in IJERCSE · 2026 · First author (3 authors)

Research conducted at IIT Delhi, Department of Electrical Engineering · Mentor: Prof. Tapan Kumar Gandhi

This paper classifies seizures from one EEG channel. EEG is treated as a graph. A GCN plus SVM, with extra training samples, handles small and uneven datasets. Results: 99.25% accuracy and 100% sensitivity. Area: Healthcare AI.

Details and a talk are on artikumari.me.

Contributions

- Modeled single-channel EEG as graphs for seizure classification.
- Trained a GCN + SVM classifier in PyTorch for healthcare AI.
- Applied data augmentation to improve generalization on limited, imbalanced data.
- Led the peer-reviewed manuscript as first author; published in IJERCSE (2026).

SELECTED PROJECTS

- **EEG Seizure Classification (GCN)** - Deep Learning · Research · Healthcare AI. GCN + SVM on graph-modeled single-channel EEG with data augmentation. Result: 99.25% accuracy / 100% sensitivity; first-author IJERCSE 2026 paper. Stack: PyTorch, GCN.
- **Ask-My-AI Assistant** - Generative AI · LLM · RAG · Live at artikumari.me. Answers recruiter questions about my profile. Stack: Google Gemini, Vercel AI SDK, Next.js.
- **Construction Company Management App** - Mobile · Flutter · Production. Live Flutter app for construction work, roles, and records. Stack: Flutter, Dart, REST APIs.
- **CRM Mobile App** - Mobile · Flutter · Production. Leads, customers, and pipeline in one mobile CRM. Stack: Flutter, Dart, Firebase.
- **Trip Portal** - Mobile · Flutter · Production. Two apps: admin and customer. Stack: Flutter, Dart, iOS and Android.

PORTFOLIO & ONLINE PRESENCE

Personal portfolio and live Ask-My-AI assistant: artikumari.me. GitHub: github.com/yadavarti05 · LinkedIn: linkedin.com/in/arti-kumari-168972416

- Site includes Generative AI demos, the EEG research write-up, and Flutter apps.
- Ask-My-AI on artikumari.me answers questions about my background and projects.
- Research case study and conference talk linked from the site.

ACHIEVEMENTS & ACTIVITIES

- Won an inter-college basketball trophy.
- Took part in college tech fests and helped as a volunteer.

TARGET ROLES

Fresher / early-career roles in AI/ML Engineering, Data Science, Applied Deep Learning, Generative AI / LLM applications, Healthcare AI, and Flutter Developer with Generative AI applications. Open to internships that convert to full-time and to roles that mix research-quality modeling with production delivery.