

Kunal Chaudhary

AI & DRUPAL TECHNICAL ARCHITECT

PROFILE SUMMARY

Seasoned AI expert and technical leader with **5+ years of experience** in web development, AI integrations, and strategic technical leadership. Expertise in **Drupal (7, 8, 9, 10), OpenAI models, and AI-driven solutions such as semantic search, machine translations, text-to-speech, and predictive AI**. Proven ability to drive **AI adoption, optimize performance, and deliver cutting-edge client-facing solutions**. Adept at leading cross-functional teams and aligning AI initiatives with business goals.

TECHNICAL SKILLS

- **Programming Languages:** PHP, Python, Java, JavaScript, React, Node.js
 - **AI & Machine Learning:** OpenAI (GPT models, embeddings, fine-tuning), Pinecone (vector databases), GCP ML APIs
 - **Frameworks & CMS:** Drupal (7, 8, 9, 10), Node.js
 - **Cloud & DevOps:** AWS, GCP, Azure, Docker, Jenkins, Git
 - **Databases:** MySQL, MariaDB, MongoDB, Pinecone (vector database)
 - **Specialized AI Domains:** Generative AI, NLP, AI-driven personalization, Conversational AI, Voice and Text Search
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KEY STRENGTHS

- Expert in **AI-driven solutions & integrations**
 - Strong **technical leadership & mentorship**
 - Skilled in **high-performance system architecture**
 - Proven ability to **enhance user engagement & AI adoption**
 - Passionate about **cutting-edge AI & ML advancements**
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KEY AI-POWERED PROJECTS

1. Semantic Search Implementation

- **Role:** Technical Architect / Tech Lead (Team Size: 10)
 - **Tech Stack:** Drupal 10, OpenAI embeddings, Pinecone, PHP, MySQL
 - **Impact:**
 - Implemented **vector-based semantic search** using OpenAI embeddings + Pinecone.
 - Improved search accuracy, increasing search-driven traffic and lead engagement by 20%.
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2. AI-Powered Multi-Lingual Framework

- **Role:** Tech Lead / AI Module Developer (Team Size: 8)
 - **Tech Stack:** Drupal 10, OpenAI translation models
 - **Impact:**
 - Automated **multi-language content workflows**, reducing manual translation efforts.
 - Ensured high-quality AI-powered translations, improving global content reach.
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3. Text-to-Speech Integration

- **Role:** Tech Lead / Developer (Team Size: 6)
 - **Tech Stack:** Drupal 10, TTS APIs, PHP
 - **Impact:**
 - Delivered **voice output interfaces**, enhancing accessibility.
 - Drove **higher content engagement** through audio features.
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4. Generative AI Search Engine

- **Role:** AI Solutions Architect / Tech Lead (Team Size: 10)
 - **Tech Stack:** Pre-trained Transformer Models, Drupal 10, Pinecone
 - **Impact:**
 - Designed **context-aware AI search engine**, replacing traditional search.
 - Elevated user experience with **AI-generated insights**.
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5. AI Model Fine-Tuning & Optimization

- **Role:** Tech Lead / Developer (Team Size: 7)
 - **Tech Stack:** OpenAI model fine-tuning, Python
 - **Impact:**
 - Fine-tuned AI models for **cost, speed, and quality balance**.
 - Achieved **robust performance and reduced latency**.
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6. Predictive Text Completion for CMS

- **Role:** Technical Architect / Developer (Team Size: 6)
 - **Tech Stack:** OpenAI GPT-based prediction, Drupal, PHP, Python
 - **Impact:**
 - Integrated **AI-based text prediction** for content creators.
 - **Streamlined editorial workflows**, reducing manual effort.
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7. AI-Driven Personalized Content Recommendations

- **Role:** Tech Lead / Developer (Team Size: 8)
 - **Tech Stack:** Generative AI, Demandbase, Drupal 10
 - **Impact:**
 - Delivered **personalized AI recommendations**, enhancing user engagement.
 - **Boosted conversion rates** with targeted content.
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8. Real-Time Voice and Text Search POC

- **Role:** Technical Architect / Developer (Team Size: 5)
 - **Tech Stack:** OpenAI real-time models, Speech-to-Text APIs, Drupal 10
 - **Impact:**
 - Developed **dual-mode (voice + text) search** prototype.
 - Advanced accessibility with **real-time AI interactions**.
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9. GCP Marketplace Integration with Drupal

- **Role:** Lead Developer (Team Size: 7)
 - **Tech Stack:** Drupal 10, GCP APIs, PHP, CI/CD
 - **Impact:**
 - Enabled **seamless GCP SaaS deployment** via Drupal.
 - Improved **cloud scalability and automation**.
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10. AI-Powered E-Commerce Checkout Optimization

- **Role:** Lead Developer (Team Size: 6)
 - **Tech Stack:** Drupal Commerce, PHP, JavaScript
 - **Impact:**
 - Developed **AI-enhanced checkout flows**, optimizing conversion.
 - Reduced cart drop-offs, **enhancing sales pipeline**.
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11. TechTadka: AI-Powered Mobile & Web App

- **Role:** Tech Lead / Developer (Team Size: 9)
 - **Tech Stack:** Drupal 10, React Native, REST APIs
 - **Impact:**
 - Launched **cross-platform AI-integrated app** (Web + Mobile).
 - Delivered **unified user experiences** across devices.
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12. AI-Enabled Customer Experience Center (CEC)

- **Role:** Technical Architect / Developer (Team Size: 11)
 - **Tech Stack:** Drupal, AI Integrations, Demandbase
 - **Impact:**
 - Built interactive **AI-powered customer engagement platform**.
 - Enabled **AI-based content personalization** and insights.
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13. Realtime Conversational AI Bot (CEC)

- **Role:** Technical Architect / Developer (Team Size: 8)
 - **Tech Stack:** OpenAI, Vector Databases, Drupal
 - **Impact:**
 - Developed **voice and text-based AI chatbot** for real-time interactions.
 - Integrated **advanced voice-to-text and vice versa** capabilities.
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EDUCATION & CERTIFICATIONS

Education

- **Masters of Science (M.Sc.) in Full Stack Development** | Liverpool John Moores University, UK | Awaiting Degree (2024/2025)
- **Executive Post Graduate (EPG) in Full Stack Development** | IIIT Bangalore | 2023
- **Bachelor of Technology (B.Tech) in Electronics & Communication Engineering** | Poornima College of Engineering, Jaipur (Raj.) | 2016–2020
- **Senior Secondary (PCM)** | Children's Academy Sr. Sec. School, Alwar (Raj.) | 2016
- **Secondary (CBSE)** | National Academy Sr. Sec. School, Alwar (Raj.) | 2014

Certifications & Achievements:

- Merit Award in **CyberOps** as an Information Security Expert
 - Runner-up in finals of **Global Cyber Space Challenge** 2017–18
 - **Best Programmer of the Year** for 2 consecutive years
 - **Finalist at ISIE Formula Imperial India**
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