

WORK EXPERIENCE

Palcode.ai

AI Engineer

Indore, India

June 2025 - Present

- Engineered multi-tenant support across Procore-synced projects, trades, and vendors on AWS, securing API access via tenant-based filtering and enabling scalable, isolated data access.
- Designed distributed voice campaign infrastructure using AWS Lambda and EventBridge for retry logic, integrating Twilio and ElevenLabs in a fault-tolerant architecture for bid intent extraction and phonetic email capture—streamlining vendor outreach automation.
- Deployed RAG-style NLP workflows hosted on AWS EC2, automating post-call summaries, entity extraction, and follow-up scheduling with OpenAI—boosting contact classification accuracy and callback efficiency.

Superteams.ai

AI Developer

Indore, India

Aug 2024 - May 2025

- Implemented an advanced Flux.1-based image generation system (text-to-image and image-to-image), boosting user engagement by 40% and garnering 5,000+ blog views on fine-tuning techniques.
- Optimized Django APIs and integrated Graylog for real-time error tracking across job posts, courses, and RAG-based document parsing—improving system efficiency by 80% and reducing unauthorized access by 90%.
- Built a centralized developer platform with custom auth and API docs, enhanced large-scale data operations using Apache Spark and NVIDIA RAPIDS, cutting execution time by 50% and support queries by 45%.

Amber Designer – Co-Founder & Entrepreneur

Fashion & Accessories Startup - www.amberdesigner.store

Indore, India

2018 - 2023

- Led development of a scalable apparel rental platform with real-time booking, Razorpay integration, AWS S3 storage, and GCP APIs for live order tracking—driving 20% annual revenue growth and expansion from 1 to 6 outlets.
- Engineered full-stack solutions using Node.js, Express.js, Ruby on Rails, AJAX, and MongoDB to develop reusable UIs and cloud services—boosting customer engagement and improving retention.

PROJECT WORK

Knowledge Graph

- Created a GenAI pipeline for NLP tasks using OpenAI's GPT-3.5-turbo with LLM fine-tuning, extracting 50+ semantic relationships from unstructured text for enhanced knowledge representation.
- Integrated RAG-enabled hybrid storage combining Neo4j graph relationships and LlamaIndex vector embeddings, enabling AI agent orchestration for multi-hop query resolution.
- Automated graph visualization workflows using GenAI-powered data modeling, reducing manual schema time by 65%.

CINEXUS- Movie Reservation System

- Architected AWS-based movie booking system leveraging EC2 Auto Scaling, Django REST APIs, and Angular/Android frontends, supporting real-time seat availability and 1,000+ bookings.
- Developed business logic with payment, memberships, rewards, and variable pricing, reducing manual operations by 75%.
- Built multi-location analytics dashboard using AWS RDS, enabling 30–90 day occupancy insights and automated reporting.

GenAI-Enhanced Blueprint Analysis System

- Deployed RAG-inspired YOLOv8 architecture with automated dataset optimization, achieving 92% precision in door/window detection (mAP@0.5: 0.89).
- Orchestrated GenAI-supported validation pipelines using Hugging Face Spaces, delivering REST API responses in under 30 seconds for scalable blueprint analysis

Product Barcode Generation Website

- Constructed a web app to streamline product management and barcode generation, handling 1,000+ entries with seamless scanning functionality.
- Implemented data validation techniques to guarantee accurate barcode generation and scanning. This led to a 70% reduction in manual product lookup time, significantly improving operational efficiency and inventory management.

EDUCATION

Bachelor of Technology in Information Technology + Artificial Intelligence

Medi-Caps University

Indore, India

Aug 2021 - July 2025

High School Diploma

Choithram School North Campus, Indore, Madhya Pradesh

Indore, India

Apr 2020

TECHNICAL PROFICIENCY

Languages: Java, Python, C/C++, MySQL, JavaScript, HTML, CSS

Frameworks & Libraries: Django, Flask, TensorFlow, PyTorch, Scikit-Learn, Keras, Pandas, NumPy, NVIDIA RAPIDS

Cloud, DevOps & Databases: AWS, Azure AI Search, PostgreSQL, MySQL, Docker, Git, GitLab, Terraform, Postman, Linux, CI/CD

Key Skills: Distributed Systems, Fault Tolerance, REST APIs, Agile Development, RAG Pipelines, NLP, GenAI, Multi-Tenant Systems