

Mihir Mohite

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PROFESSIONAL SUMMARY

B.Tech AI/ML student with proven Large Language Model (LLM), RAG, and agentic AI expertise. Currently President of CoDeC and ML Intern at BeyondBot, specializing in architecting production-grade ML solutions and scalable cloud-native applications.

EDUCATION

MIT-WPU, Pune

Expected May 2027

B.Tech in Electronics & Communication Engineering, Specialization in AI & ML

CGPA: 8.5/10.00

EXPERIENCE

Machine Learning Intern, BeyondBot Technology Pvt. Ltd., Pune

Oct 2025 - Present

- Developed and optimized production-grade LLM solutions, including RAG and GraphRAG systems, focused on high performance and scalability.
- Implemented Computer Vision/OCR pipelines for multi-format document processing, for lightweight bounding box detection for Form Field Detection.

Software Intern, Heera Software Private Limited, Pune

June 2025 - Oct 2025

- Developed a custom score for an address validation system with experience using Google Maps API, Fuzzy matching and Reverse geocoding for Cosine Similarity.

SELECTED PROJECTS

University Feedback System

- Engineered WhatsApp-based feedback system using Meta API and serverless AWS architecture (Lambda, S3) with React.js frontend for scalable, real-time data collection.
- Implemented agentic AI workflow (Agno framework) with Vertex AI Gemini API for adaptive surveying, dynamic question generation, and real-time sentiment analysis.

EKG - Enterprise Knowledge Graph

- Engineered enterprise knowledge graph system unifying structured (SQL), semi-structured (JSON), and unstructured (TXT) data sources.
- Implemented Neo4j database with Gemini API for entity extraction and relationship mapping; developed interactive dashboard for natural language querying.

Advanced RAG Implementation – Engineered production-grade RAG system using Sentence Transformers and Pinecone; maximized retrieval efficiency with IBM Docling and multi-format document processing.

Scout Rover for Dangerous Environments – Developed autonomous rover with LiDAR-based SLAM (MATLAB) for hazardous area mapping and multi-sensor environmental monitoring.

LEADERSHIP & EXTRACURRICULARS

President, CoDeC - Competitive Programming Club at MITWPU

Oct 2025 - Present

- Leading the strategic direction and technical initiatives for the university's official competitive programming club.
- Organizing workshops, hackathons, and competitive programming events to foster coding excellence.

ML Projects Division Lead, CoDeC

Jan 2025 - Present

- Spearheading AI/ML project initiatives from conception to completion, defining project scope and technology stack.
- Supervising development teams and conducting knowledge-sharing sessions on deep learning frameworks and data science.

TECHNICAL SKILLS

ML & LLMs: RAG (Sentence Transformers, Pinecone, Milvus), IBM Docling, Vertex AI, Gemini API, Agno Framework, NLP, Computer Vision, OCR, CNN, PyTorch, TensorFlow, Keras, Transformer Architecture

Web & Cloud: React.js, Node.js, JavaScript, SQL, AWS (Lambda, S3, EC2), Google Cloud (Vertex AI)

Databases: Neo4j, Pinecone, Milvus, MySQL

Languages & Tools: Python, C, C++, Java, Git, MATLAB, WhatsApp Business API, Meta API

Hardware: Arduino, ESP32/8266, Raspberry Pi, LiDAR, Circuit Design