

Bhavya Pratap Singh Tomar

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EXPERIENCE

AI Development Intern <i>Seequenze Technologies</i>	Nov 2024 – Jan 2025 Noida, U.P.
<ul style="list-style-type: none">Engineered an advanced LLM-based code refactoring system handling 200K+ tokens, utilizing custom prompt engineering and AST-level analysis to bypass context window limits while preserving context integrity.Developed an intelligent code transformation pipeline using advanced prompting techniques to convert static layouts into responsive designs and inline CSS to Tailwind CSS, serving 1,000+ business clients.Developed a robust FastAPI backend supporting 10K+ concurrent users for LLM-based code refactoring.	

Artificial Intelligence Intern <i>FoodNEST(S)</i>	Sept 2024 – Nov 2024 Lucknow, U.P.
<ul style="list-style-type: none">Developed and deployed an in-house multilingual, multimodal AI chatbot using Watsonx Granite models and FastAPI, automating order processing for 2M+ stakeholders and reducing manual overhead by 30%.Devised a multilingual architecture across 22+ Indic languages, improving intent accuracy and customer satisfaction.Architected distributed web/map/video scrapers with Python, Docker, and EC2, ensuring 98% uptime and secure hybrid-cloud data ingestion for analytics pipelines.Built a scalable RAG application using LlamaIndex and prompt chaining, integrating Watsonx.ai APIs for governance-compliant model monitoring and supporting 500K+ clients.	

PROJECTS

CQ Lite <i>LangGraph, FastAPI, Gemini, AST, Bandit, ChromaDB, Python</i>	Live Analyzer
<ul style="list-style-type: none">Orchestrated a multi-agent workflow using LangGraph for conditional routing between file discovery, static analysis (AST, Bandit), and Gemini-powered review agents.Deployed as a FastAPI service, enabling a ChromaDB-powered Q&A system with live repository/PR review analysis.	
Low-latency AI Voice Assistant <i>Whisper, Edge-TTS, Hugging Face, VAD, Streamlit</i>	
<ul style="list-style-type: none">Built end-to-end voice assistant pipeline with sub-500ms latency using faster-whisper STT, HuggingFace LLM, and Edge-TTS synthesis.Implemented Voice Activity Detection using threshold-based classification with tunable pitch and speech-rate parameters	
NoPing <i>React, Next.js, opBNB, BNB Greenfield, Gmail API, Smart Contracts</i>	
<ul style="list-style-type: none">Developed unified productivity platform integrating Gmail, Slack, Teams, and WhatsApp with AI-powered message prioritization and task extraction.Implemented blockchain transparency using opBNB smart contracts for AI decision logging and seamless integration with productivity tools (Asana, Trello, JIRA).	

TECHNICAL SKILLS

Languages: Python, C++, Java, JavaScript, SQL, Solidity, Linux (Bash)
AI & Machine Learning: LLMs, RAG, Fine-tuning (SFT, GRPO), Prompt Engineering, Transformers, Deep Learning (CNN, RNN), NLP, GenAI (Granite Models), AgentOps
Frameworks & Libraries: PyTorch, TensorFlow, Hugging Face, LangChain, LangGraph
Cloud & DevOps: IBM Watsonx.ai (Governance & Orchestration), Azure AI, AWS (EC2, S3, IAM), Docker
Databases: Vector (Pinecone, ChromaDB, Weaviate), NoSQL (MongoDB, Neo4j), SQL (SQLite, PostgreSQL)
Web Development: FastAPI, MERN (MongoDB, Express, React, Node.js), ThirdWeb, RESTful APIs
Specialized Areas: AI Governance, Ethical AI, MLOps (CI/CD), Model Monitoring
Certifications: Coursera: ML Specialization (Stanford); NLP Specialization (DeepLearning.AI)

ACHIEVEMENTS

<ul style="list-style-type: none">Amazon - National Top 25 — Ranked 23/83K+ in ML Challenge for a Two-Tower DL model on product pricing 2025Intel - National Winner — Top 12/4K+ in AI Hackathon; won 25k Rs for building Agentic AI using OPEA™ 2025Hackodisha 5.0 - National Winner — Won \$170 for Best AI Project among 6,000+ participants for Neon-Canvanes 2025Google Cloud Agentic AI Day - National Finalist — Among 59000+ at BIEC for Farmers Agentic Solution 2025AMD - National Top 10 — Among 3K+ registrations in AI Sprint for finetuning Llama & Qwen models 2025BNB Chain - National Runner-up — Out of 2K+ at IIT Delhi; won 9k Rs for an AI tool on blockchain 2025Orange Vibe Jam - Bounty Winner — Int'l 15th/2K+ registrants; won \$121 for deploying a blockchain game 2025Mercer Mettl - Top 50 — Among 3K+ in AI Arena 2.0 for a GenAI personalized retail chatbot 2023Wells Fargo - National Finalist — Among 890+ at IIT Madras for crack detection software 2023

EDUCATION

Madhav Institute of Technology and Science <i>Bachelor of Technology in Artificial Intelligence and Machine Learning</i>	Gwalior, MP May 2022 – Present
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