UTKARSH JHA

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SKILLS

- Python, Core Java (Spring Boot), C++, HTML, CSS, JavaScript, SQL, Lang Chain, React.js, Node.js, LLM, NLP, IBM Cloud, PostgreSQL, Apache Spark
- Operating Systems, Database Management System, Data Structures and Algorithms, Machine Learning, OOPs, ESG Rating Interpretation,

wORK EXPERIENCE / INTERNSHIPS

Gadiel Technologies Pvt. Ltd: *Lead Engineer (Data & AI)* **01/2025 – Present**

- Accelerated deployment & production adoption as measured by faster release cycles, by owning architecture of **AI workflows, ETL pipelines,** and **orchestration logic**, leading cross-functional execution, and applying Docker-based MLOps to standardize enterprise rollout.
- Reduced manual reporting workload by **40%**, as measured by time-to-report generation, by transforming Excel-based milestone trackers into **LLM-powered ETL + FastAPI pipelines** using **Watsonx.ai, Watsonx.data, Python**, and **Cloud Object Storage** for real-time analytics and automation.
- Improved operational efficiency by **50%**, as measured by reduced manual handoffs across departments, by designing **Agentic workflows** integrating **Salesforce, SAP, and COS** to automate reporting and enable natural language data access for Finance, CRM, and Project Management units.
- Accelerated decision-making by **35%**, as measured by latency and query accuracy, by enabling LLM-powered retrieval **(embeddings + RAG)** across CRM, Finance, GST, HR, and Project data, delivering contextual insights for high-velocity enterprise decisions.
- Automated multi-step business processes as measured by turnaround time and error reduction, by building custom **RAG-based AI chat-bots** to orchestrate workflows such as Invoice → SES → PO verification, lead acquisition → opportunity → sale journey, enabling event-triggered execution and intelligent validation.
- Expanded AI platform capabilities by developing enterprise data apps and AI services using **Milvus, Granite AI models, IBM's Code Engine, and LLM APIs**, and supporting website/application development for enterprise users to interface with automation, analytics, and conversational AI systems.

PROJECTS

AI Meeting Assistant
Python | Streamlit | IBM Granite ASR | IBM Granite 3.3 | Hugging Face | FFmpeg | SMTP | Jira REST API | PDF Generation | NLP | ASR

- Developed using *IBM Granite ASR* for transcription and *Granite 3.3 on watsonx.ai* for summarization and action item extraction.
- Generates *PDF Minutes of Meeting* and sends *email summaries via SMTP* to all participants.
- Creates and assigns *Jira tasks using the Jira REST API* to ensure follow-up and accountability.

OCR Chat-Bot
Python | Streamlit | EasyOCR | TrOCR | Llama 4 Maverick | OpenCV | React.js | CSS | Deskew

- Built an OCR app allowing users to upload handwritten images/documents; preprocessing (deskew/denoise) improved OCR accuracy from 78%.
- Fine-tuned TrOCR on domain data and used Llama 4 Maverick to structure extracted text, reducing manual cleanup by 80%.

AI Doodle Studio
HTML | CSS | JavaScript | Conceptual AI | WebGL | SQL | Canvas API

- Developed **AI Doodle Studio**, a responsive web-based drawing app with real-time AI-inspired visual effects using Canvas API and JavaScript.
- Engineered custom transformations like kaleidoscope, neon glow, and symmetry with shader-like logic.

EDUCATION

Guru Gobind Singh Indraprastha University || Delhi, INDIA – 8.4 CGPA
Bachelor of Technology - Computer Science Engineering

    Relevant Coursework: Applied Mathematics-I, Applied Mathematics-II, Introduction to Programming, Foundation of Computer Science, Switching Theory and Logic Design, Computer Organisation Architecture, Theory of Computation, Database Management Systems, Data Structures

CERTIFICATIONS AND ACHIEVEMENTS

- Prompting Essentials, Google   2025
- Data Science Professional Certificate, IBM   2024
- Software Engineering Virtual Experience, JP Morgan Chase & Co   2022