TANISH KANDIVLIKAR

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EDUCATION

Worcester Polytechnic Institute (Eligible for OPT)   August '23 - May '25
Master of Science, Data Science

International Institute of Information Technology Bangalore   July '20 - August '21
Post Graduate Diploma, Data Science

Thakur College of Engineering and Technology   August '16 - October '20
Bachelor of Engineering, Electronics

TECHNICAL SKILLS

- **Languages/Tools:** Unix Shell Scripting, Python, SQL, MS Excel, Tableau, Selenium, DVC, FastAPI, Streamlit
- **Version Control/DevOps:** Git, GitHub, CI/CD, AWS, Docker, Kubernetes, Terraform, Ansible, Prometheus, Grafana
- **Libraries/Frameworks**: TensorFlow, PyTorch, Scikit-Learn, Pandas, Hyperopt, MLflow, LangChain, Kubeflow, KServe
- **Data Engineering**: Databricks, Apache Spark, Kafka, Airflow, dbt, Snowflake
- **Gen AI:** LangGraph, CrewAI, Qdrant, Comet ML, Opik, HuggingFace, Pydantic, OpenAI Agents SDK, MCP, Cohere, Bedrock

PROFESSIONAL EXPERIENCE

Findability Sciences | Boston, MA, USA   August '24 – December '24

- Collaborated with the Generative AI Head to design and deliver a production-grade legal chatbot optimized for complex legal and bankruptcy-related queries using **Amazon Bedrock**, **LangGraph**, **FastAPI**, and **Chroma**.
- Built a multi-agentic **Retrieval-Augmented Generation (RAG)** workflow incorporating hybrid retrieval, semantic filtering, reranking, and few-shot prompt engineering, resulting in a 30% boost in response accuracy.
- Added **robust guardrails** and context-aware capabilities to enable the chatbot to synthesize and analyze signed legal documents, delivering clear, high-stakes legal insights.
- Demonstrated the system to stakeholders through **live demos**, highlighting its enterprise-readiness and strong performance across multi-document legal tasks.

Marketing Intern, Purplle.com | Mumbai, MH, India   December '21 - March '22

- Analyzed national and state-level cosmetics sales and campaign data using **SQL, Python and Excel** to identify product trends, underperforming regions, and optimization opportunities.
- Built and maintained **Tableau** dashboards to visualize sales and campaign performance across regions, improving visibility into KPIs and enabling a 15% gain in resource allocation efficiency.
- Supported digital marketing via **Facebook Ads Manager** and **Google Ads**, automating reporting workflows and providing real-time insights to refine strategy.

SELECTED PROJECTS

Fine-Tuning GPT-OSS 20B for Multilingual Reasoning - GitHub

- **Fine-tuned OpenAI's GPT-OSS 20B model** using LoRA + 4-bit quantization with Unsloth, enabling efficient multilingual reasoning adaptation on a single NVIDIA A40 GPU with reduced VRAM requirements.
- **Prepared and standardized multilingual reasoning dataset** into Harmony-compatible chat format, ensuring alignment with model's expected input-output structure for optimal reasoning performance.
- **Optimized training pipeline** with gradient checkpointing, AdamW 8-bit optimizer, and custom Unsloth kernels, achieving a complete fine-tuning run (60 steps, ~23 minutes) while reducing GPU memory usage by ~70%.

Criminal Procedure Assistant – AI-Powered Legal Chatbot - GitHub

- **Developed a RAG-based legal chatbot** using OpenAI GPT‑4 API and LangChain to answer questions about the *Massachusetts Rules of Criminal Procedure* legal book in structured IRAC format. Integrated document ingestion, text chunking, and vector-based search with HuggingFace and Pinecone, and built a real-time metrics dashboard.
- **Automated deployment** via CI/CD using GitHub Actions, Docker, and Amazon ECR, with seamless delivery to a self-hosted AWS EC2 runner for continuous, demo-ready hosting.

Meeting Minutes Automation Toolkit - GitHub

- **Built a multi-agent GenAI workflow** with OpenAI Whisper, pydub, and CrewAI to transcribe audio, summarize content, extract action items, and analyze sentiment fully orchestrated via YAML.
- **Designed a modular, Pydantic-backed framework** with Gmail API and Markdown-to-HTML conversion to auto-draft follow-up emails and enable low-code workflow customization.