

Enea Dodi

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Education

University of Massachusetts – Amherst
B.S in Computer Science, B.A in Philosophy

December 2021
GPA 3.971

Projects

FindStocksForMe www.findstocksforme.com

- **Architected and deployed full-stack trading simulation platform** combining crowd wisdom and AI-driven security filtering, building the entire production system from scratch including payment processing (Stripe), authentication, admin dashboards, CDN, email/SMS notifications (MailGun), and subscription management.
- **Engineered multi-agent LangGraph workflows** that generate comprehensive stock analysis reports with automated ratings and scoring, synthesizing real-time data from financial APIs, news feeds, SEC filings, balance sheets, earnings history, congressional trading activity, and technical indicators (MACD, volume, price action)
- **Developed ensemble ML pipeline** with Transformer-based time-series forecasting and model stacking architecture using Logistic Regression to aggregate predictions from SVM, XGBoost, Random Forest, and K-means clustering models.
- **Built RAG-powered educational chatbot** with custom agent tools for market data retrieval, SQL queries, and financial API integrations to help users develop investment intuition
- **Technical Stack:** Python, PyTorch, LangChain, LangGraph, scikit-learn, Flask, PostgreSQL, Docker, HuggingFace, Stripe, Mailersend, HTMX, Svelte, Jinja, AlpineJS, HTML/CSS/Javascript

Project Birdman www.projectbirdman.com

- **Engineered AI-powered generative art platform** experimenting with chaos theory principles, integrating multiple image generation models (Imagen3, DALL-E, Stable Diffusion) with dimensionality reduction and vector embeddings for uniqueness verification.
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- **Developed multi-agent workflow system** with specialized agents for customer service automation, business operations, and dynamic art generation, enabling autonomous platform operations
- **Technical Stack:** FastAPI, Python, LangChain, Imagen3, DALL-E, scikit-learn, Vector DB, Stripe, Docker

Work Experience

Disney - AI Engineer

2024 December – current

- **Architected and deployed production-grade agentic systems** including database-agnostic SQL agents with multi-agent orchestration, query refinement pipelines, and sentiment analysis integrations for enterprise data intelligence
- **Engineered Model Context Protocol (MCP) servers** for form registration workflows, adversarial validation, and image preprocessing; containerized via Docker with seamless integration across LiteLLM, OpenWebUI, and Claude interfaces
- **Built specialized autonomous agents** for metadata extraction, cost optimization, and dynamic query enhancement, implementing Redis-based session management and complex graph workflows with state validation
- **Developed scalable data ingestion connectors** for enterprise platforms (SharePoint, Confluence) and integrated Azure Document Intelligence with enhanced concurrency and background processing for document workflows
- **Technical Stack:** LangChain, LangGraph, Autogen, Google ADK, FastMCP, FastAPI, Redis, Azure, GCP, AWS S3, Docker, Python

Wisconsin Physicians Service – Contract-to-Hire Machine Learning Engineer 2 / Data Scientist 2

2022 April – 2024 May

- **Developed advanced ML models** including time-series forecasting with Transformers, LSTMs, and ARIMA on large-scale datasets (1TB+), addressing complex healthcare analytics and business optimization challenges with measurable ROI
- **Engineered dimensionality reduction solutions** using FAMD, MFA, and PCA to visualize and identify critical system code errors, enabling faster root cause analysis and system improvements
- **Implemented Faiss-based vector search** for large-scale near-duplicate image detection, integrating efficient similarity search and clustering for dense vector operations
- **Pioneered early RAG chatbot systems** with custom agent tools for dynamic document interaction and specialized retrieval, bridging traditional ML approaches with emerging agentic AI capabilities
- **Technical Stack:** PyTorch, scikit-learn, Transformers, Faiss, LangChain, Pandas, Numpy, OpenCV, Flask, SHAP, HuggingFace, Azure, Databricks, SQL

Please visit www.eneadodi.com for more information, including: philosophical literature, generative blogs, and updates