Robert Johnson

AI Engineer | LLM Applications Specialist

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Professional Summary

Practical AI Engineer with 4+ years of experience implementing LLM-powered applications for enterprise use cases. Specialized in fine-tuning strategies, retrieval-augmented generation, and prompt engineering techniques. Strong focus on bridging research advances with business applications to deliver measurable outcomes.

Professional Experience

AI Applications Engineer

Enterprise AI Solutions, Chicago, IL (May 2022 - Present)

- Implemented RAG systems for enterprise knowledge bases, improving answer accuracy by 45% over baseline LLMs. - Developed specialized fine-tuning methodology for domain adaptation, reducing hallucinations by 60%. - Created evaluation frameworks aligned with business metrics to measure ROI of LLM implementations. - Designed hybrid architectures combining rule-based systems with LLMs for critical applications.

Machine Learning Engineer

DataDrive Technologies, Detroit, MI (Jan 2020 - Apr 2022)

- Built NLP systems for document processing, extraction, and classification. - Implemented transformer-based models for sentiment analysis and entity recognition. - Developed APIs and integration layers for connecting ML systems with business applications. - Created monitoring dashboards for tracking model performance in production.

Software Engineer

TechSolutions Inc., Cleveland, OH (Aug 2018 - Dec 2019)

- Developed backend services for data processing and analytics applications. - Created RESTful APIs for machine learning model integration. - Implemented data pipelines for training and evaluation datasets.

Technical Skills

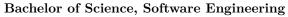
- Programming Languages: Python, JavaScript, TypeScript
- ML Frameworks: PyTorch, HuggingFace Transformers, LangChain, LlamaIndex
- Model Types: GPT-3.5, GPT-4, LLaMA, Mistral, BERT, RoBERTa
- Vector Databases: Pinecone, Weaviate, Chroma, FAISS
- Backend & APIs: FastAPI, Flask, Node.js, GraphQL
- Cloud Services: AWS (Lambda, ECS, S3), Azure (Functions, AKS)
- **DevOps:** Docker, GitHub Actions, Jenkins

Education

Master of Science, Computer Science

University of Illinois Urbana-Champaign, IL (Graduated: May 2018)

- Specialization in Machine Learning and Data Mining - Capstone project: Building NLP applications for business analytics



Purdue University, West Lafayette, IN (Graduated: Jun 2016)

- Minor in Business Administration - Dean's List for 6 consecutive semesters

Certifications

- AWS Certified Machine Learning Specialist (2023)
- Microsoft Certified: Azure AI Engineer Associate (2022)
- Deeplearning.ai Natural Language Processing Specialization (2021)

Project Portfolio

- Enterprise Knowledge Assistant: Built RAG-based system for internal knowledge retrieval
- **Document Processing Pipeline:** Created end-to-end system for processing, analyzing, and extracting information from business documents
- Customer Support Automation: Developed hybrid rule-based/LLM system for addressing customer inquiries

Professional Presentations

- Speaker at Enterprise AI Summit 2023: "Practical Applications of LLMs in Business Contexts"
- Workshop leader at Chicago AI Meetup: "Building RAG Systems for Enterprise Knowledge Bases"

Languages: English (native), Spanish (conversational)