| Richard Raithel  AI Engineer | East Taunton, MA  508.463.7424  rraithel@gmail.com |
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| EXPERIENCE*Senior Data Science Engineer* Fuchs Lubricants - Fairhaven, MA  JANUARY 2021 - PRESENT   * **Developed AI-driven data retrieval systems** using Retrieval-Augmented Generation (RAG) and Large Language Models (LLMs), significantly reducing data access times for business users. * **Architected and deployed full-stack solutions** with Django, Azure, and CosmosDB to streamline data workflows and improve reporting capabilities. * **Built dynamic dashboards** with PowerBI and Plotly Dash, enabling actionable insights for non-technical users. * **Designed scalable data pipelines** using Python, SQL, and cloud-native tools to support real-time analytics and machine learning workflows.  *Application & Test Design Engineer* Nye Lubricants - Fairhaven, MA  MAY 2018 - JANUARY 2021   * **Enhanced laboratory data workflows** by automating processes with Python and SQL, improving efficiency and reducing manual intervention. * **Developed software** for custom test machinery, increasing operational accuracy and minimizing downtime. * **Engineered data pipelines** to process unstructured data, enabling advanced analysis and actionable insights.  PROJECTS*AI-Driven Data Retrieval System*  * **Designed and deployed a Generative AI-powered system** to streamline data retrieval and enhance accessibility for complex datasets. * **Integrated APIs** from platforms like Azure and OpenAI to ensure seamless functionality and real-time processing. * **Conducted model evaluation and optimization** to improve accuracy and scalability.  *Enterprise Data Management Platform*  * **Built a modular data management platform** using Azure, Django, and CosmosDB, enabling scalable and efficient data handling for R&D operations. * **Implemented CI/CD pipelines** to automate deployment and ensure robust data workflows. * **Enhanced data visualization capabilities**, empowering stakeholders to make informed decisions with real-time insights. | SKILLS  * **Programming & Frameworks** * Python, Django, PyTorch, Pandas, Numpy * **AI/ML Expertise** Generative AI, NLP, RAG, Computer Vision * **Data Engineering** SQL (MySQL, PostgreSQL), NoSQL (MongoDB, CosmosDB, VectorDBs), Cloud-native pipelines * **Cloud Platforms** Microsoft Azure * **Visualizations** Plotly Dash, PowerBI * **DevOps** CI/CD, JIRA, Git  LINKS **LinkedIn** linkedin.com/in/richard-raithel  **Portfolio** richard-raithel.github.io  **Personal Project** personifAI.net  **GitHub** github.com/richard-raithel EDUCATION UMass Dartmouth ***M.S. in Data Science*** JANUARY 2019 - DECEMBER 2020  UMass Dartmouth ***B.S. in Mechanical Engineering*** SEPTEMBER 2015 - MAY 2018 |