

JOHN M. DENNIS

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[Portfolio Website](#)
[LinkedIn Profile](#)
[GitHub Profile](#)

DATA SCIENTIST & AI/ML ENGINEER

Skilled and data-driven professional with **over six years** of relevant industry experience in the fields of **Data Science, Data Analytics, Data Engineering, Machine Learning and AI**. Thrives in environments where all employees are encouraged to be leaders, and data is valued as a core business enabler. Proven track record of teaching and advocating adoption of new technologies and tools within organizations and academia.

PROFESSIONAL EXPERIENCE

FULLSTACK ACADEMY, Remote Home Office, Novi, MI
Manager, Data Science & AI/Machine Learning

April 2025 – Present

- Lead a 6-month AI & Machine Learning bootcamp for professionals, covering Python, data preparation, supervised & unsupervised learning, deep learning (CNNs, RNNs), transformers, and reinforcement learning.
- Deliver hands-on instruction in generative AI, prompt engineering, diffusion models, and large language models (LLMs) using Hugging Face, LangChain, LLaMA, and OpenAI.
- Guide project-based learning in NLP and LLM applications, including vector databases, retrieval-augmented generation (RAG), agentic workflows, and real-time speech-to-text / text-to-speech chatbots.

CHEGG, Remote Home Office, Novi, MI
Data Scientist & AI/ML Engineer

June 2020 – April 2025

- Designed and implemented technical curriculum, reaching thousands of students across multiple programs, including Data Science, Data Analytics, Data Engineering, Software Engineering, Cybersecurity, and AI.
- Developed AI chatbots improving student engagement by 10% through enhanced self-guided learning.
- Delivered lessons covering machine learning frameworks, such as Keras, TensorFlow, and Scikit-Learn.
- Created over 500 educational assets, including interactive student activities, graded assessments, instructional videos, infographics, and automated evaluations for coding exercises.
- Addressed and resolved over 95% of student-reported technical issues within 24 hours.

INDEPENDENT CONSULTING SERVICES, Remote Home Office, Novi, MI
Data Scientist & AI/ML Engineer

Oct. 2019 – June 2020

- Developed a Python-based web scraping tool for UNC Chapel Hill, enabling researchers to process and categorize dozens of academic papers for scientific studies.
- Provided predictive analytics consulting for a University of Michigan-affiliated startup, leading to data-driven insights that helped secure research grants.

FORD MOTOR COMPANY, (Hybrid) Dearborn, MI
Emerging Technology & Development Tools Specialist

Sept. 2016 – Dec. 2019

- Led a Strategic Research Services team delivering technical insights to guide global R&D priorities at Ford, while advancing open-source collaboration through GitHub governance contributions.
- Assisted in shaping Ford's AI and Cognitive Computing strategy by delivering technical insights, providing training sessions, and conducting interactive AI lab tours for hundreds of Ford employees.
- Evaluated and recommended chatbot technologies for IT Help Desk operations, improving efficiency by 20%.

FORD MOTOR COMPANY, (Hybrid) Dearborn, MI
IT Project Manager

Jan. 2008 – Sept. 2016

- Implemented IT solutions that supported Ford's Legal Office, improving compliance and operational efficiency across global teams by an estimated 10%.
- Led a global rollout of a smartphone app for corporate conduct policies and ethics guidelines, increasing awareness and adoption by 25%.
- Replaced paper binders with an iPad-based board meeting app, cutting preparation time by 20% and improving accessibility.
- Designed a cost recovery model for the eBilling system, achieving \$250,000 in annual savings.
- Spearheaded the implementation of new systems for eDiscovery, matter management, and due diligence, improving efficiencies by 20%.

ADDITIONAL EXPERIENCE – TEACHING

SCHOOLCRAFT COLLEGE, Livonia, MI

Computer Science Instructor (Evenings), Adjunct Faculty

Prepared lessons and taught evening adult education classes on topics including Visual Basic and Excel programming, and Technical Analysis of the Financial Markets (stocks, options, and commodity futures markets).

UNIVERSITY OF MICHIGAN, Dearborn, MI

Computer Science Instructor (Evenings), Adjunct Faculty

Prepared lessons and taught evening undergraduate computer programming classes for the Department of Computer Science & Engineering.

EDUCATION

Master of Science (MS), Computer Science & Engineering, OAKLAND UNIVERSITY, Rochester, MI

Bachelor of Science (BS), Electrical Engineering, MICHIGAN STATE UNIVERSITY, East Lansing, MI

PROFESSIONAL CERTIFICATIONS & SOCIETIES

- **AWS Certified AI Practitioner:** [Professional certification issued by Credly](#)
- **AWS Certified Cloud Practitioner:** [Professional certification issued by Credly](#)
- **Databricks Fundamentals:** [Professional certification issued by Accredible](#)
- **Databricks Generative AI Fundamentals:** [Professional certification issued by Accredible](#)
- **AWS Customer Council Member**

Additional Skills

TensorFlow, Keras, PyTorch, ChatGPT, Gemini, Copilot, Slack, Jira, Asana, Agile, Kanban, Microsoft 365, VS Code, pandas, NumPy, SciPy, Scikit-Learn, Tableau, PySpark, JavaScript, SQL, SageMaker, GitHub, CI/CD, MLOps

Language Skills (varying proficiency)

Spanish, French, German, Portuguese