JOHN M. DENNIS

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LinkedIn Profile
Personal Website

DATA & AI SPECIALIST

Skilled and data-driven professional with **over five years** of relevant industry experience in the fields of **Data Science, Data Analytics, Data Engineering, Prompt Engineering 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

CHEGG, Remote Home Office, Novi, MI
Data & AI Subject Matter Expert & Curriculum Writer   **June 2020 – Present**

- 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-powered chatbots that improved student engagement by 10% through enhanced self-guided learning experiences.
- 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 general lesson content.
- Engineered automated assessment tools for coding exercises in Python, SQL, and JavaScript, eliminating the need for manual grading.
- Addressed and resolved over 95% of student-reported technical issues within 24 hours.
- Developed code-intensive hands-on student labs covering Python, SQL, Tableau, JavaScript, and Excel.
- Utilized Microsoft 365 tools (SharePoint, Outlook, Excel, Word, PowerPoint) to streamline collaboration and content development.

INDEPENDENT CONSULTING SERVICES, Remote Home Office, Novi, MI
Data & AI Subject Matter Expert   **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**

- Directed a Strategic Research Services team of three, providing technical insights that guided Ford's research investments and innovation priorities for all of Ford's global employees.
- Assisted in shaping Ford's AI and Cognitive Computing strategy by delivering technical insights and conducting training sessions for hundreds of Ford employees.
- Evaluated and recommended chatbot technologies for IT Help Desk operations, improving efficiency by 20%.
- Organized and led interactive lab tours on AI, IoT, and VR/AR, enhancing corporate understanding and adoption of emerging technologies.
- Contributed to Ford's GitHub governance model, increasing open-source collaboration across IT teams.

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%.

TEACHING EXPERIENCE

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 & SKILLS

- **AWS Certified AI Practitioner:** Professional certification issued by Credly
- **AWS Certified Cloud Practitioner:** Professional certification issued by Credly
- **LinkedIn Learning Paths:** Master AI & ML, ML Specialist, Advanced AI & ML, Data Scientist, Python Dev.

Other skills I have experience with include:
ChatGPT, Gemini, Copilot, Slack, Jira, Asana, Agile, Kanban, Microsoft 365, Jupyter, VS Code, pandas, NumPy, SciPy, Scikit-Learn, Tableau, PySpark, JavaScript, React, SQL, PostgreSQL, Loom

Professional Associations/Societies
AWS Michigan, Ann Arbor AI/ML, Ann Arbor/Detroit NLP, PyData Ann Arbor

Language Skills (varying proficiency)
Spanish, French, German, Portuguese