

JOHN M. DENNIS

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AI, MACHINE LEARNING & DATA SCIENCE SPECIALIST Empowering People by Harmonizing Technology & Data

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

RECENT DATA SCIENCE/MACHINE LEARNING PROJECTS (PLEASE SEE MY [GITHUB SITE](#) FOR DETAILS)

- NLP Abstractive Text Summarizer using **Keras**
- NLP Language Translator using **PyTorch**
- NLP Sentiment Analysis using **Python**
- NLP Word Cloud Weather Analysis using **Python**
- NLP Extractive Text Summarizer using **Python**
- **XGBoost** Breast Cancer Image Detection
- Deep Learning Image Classifier using **TensorFlow**
- Image Recognition using ResNet-50 and **Keras**
- Personal Chatbot using **AWS** Lex
- Data Visualization using **Tableau**

PROFESSIONAL EXPERIENCE

FORD MOTOR COMPANY, Dearborn, MI

Emerging Technology & Development Tools Specialist

Sept. 2016 to Dec. 2019

Responsibilities included managing the external research of emerging technologies and enabling innovation within Information Technology at Ford.

- Active participant and contributor to Ford's Artificial Intelligence and Cognitive Computing team strategy and education sessions, providing strategic insights and points of view on new technologies. Also worked closely with business customers to research and select Chatbot technologies to support Ford Help Desk operations.
- Leader of Strategic Research Services team (3 employees) – responsible for providing technical insights on emerging technologies so that Ford can focus research efforts on areas that will provide the greatest value
- Research lab interactive tour coordinator – schedule and coordinate tours of Emerging Technology & Innovation research labs covering Artificial Intelligence & Cognitive Computing, Internet of Things, and Virtual & Augmented Reality labs. Also support corporate innovation and research initiatives by providing Ford employees access to equipment for creating proofs of concept involving AI and other emerging technologies.
- GitHub governance model team leader - driving the effort to strengthen Ford's software development community with a more secure and unified software collaboration environment

IT Portfolio Manager for Office of General Counsel

Jan. 2008 to Sept. 2016

Trusted partner with Ford's legal office to strategically align their business needs with emerging IT tools and services in support of global growth, innovation, and business sustainability. Key deliverables included:

- Global adoption of smartphone app providing mobile access to corporate conduct policies and ethical guidelines
- Successful replacement of all paper binders with an iPad app to support board of directors meetings
- Developed and delivered a cost recovery model for Ford's eBilling system recovering \$250,000 annually
- Successful implementation of new systems for eDiscovery, matter management and due diligence
- Leadership role for annual vendor contract renewal process toward maintaining sustainable spend levels

Business Relationship Manager for IT Collaboration Tools

May 2002 to Jan. 2008

Managed IT projects toward successful implementation and deployment of collaboration tools within Ford. Project management responsibilities included hiring resources, securing funding, identifying and mitigating risks, managing customer relationships, and coordinating teams to deliver business-critical projects to customers such as:

- Enterprise SharePoint portal and search engine delivered and implemented across the enterprise
- Conferencing tools and virtual team sites delivered and made available to all employees

ADDITIONAL RELEVANT EXPERIENCE & SKILLS

GREAT LAKES FUTURES, LLC., Novi, MI (Personal Business)

Chief Software Engineer & Trading System Developer

Jan. 2008 to March 2013

Managing partner and lead developer of automated trading systems for commodity futures trading company.

- Developed and implemented proprietary automated trading systems using fourth-generation language
- Utilized genetic algorithms, neural networks, and Monte Carlo simulations to improve system performance
- Traded and managed commodity futures systems for private accounts

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 (including courses on how to trade stocks, options, and the 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 DEVELOPMENT, SKILLS & CERTIFICATIONS

I am **AWS Certified** as a [Machine Learning Specialist](#) and [Cloud Practitioner](#).

I am a self-starter who is passionate about my profession, and I have successfully completed **over 60 online technical courses** including the following **five learning path certifications**:

- **Master AI & Machine Learning** (Business Applications)
- **Machine Learning Specialist** (ML Learning Techniques)
- **Advanced AI & Machine Learning** (Cloud Services)
- **Data Scientist** (Clean/Transform/Mine/Visualize Data)
- **Python Developer** (Libraries, Design Patterns)

Other topics I have experience with or familiarity with include:

TensorFlow, Keras, PyTorch, AWS SageMaker, Google Colab, Docker, Anaconda, Jupyter, VS Code, Pandas, NumPy, SciPy, Scikit-Learn, Tkinter, SPSS, SQL, PostgreSQL, Tableau, GitHub, Deep Learning, Transfer Learning, Ensemble Learning, Supervised & Unsupervised Learning, Regularization, Spark, Data Visualization, Natural Language Processing, GPUs, Feature Engineering (Dimensionality Reduction, Imputation, Normalization, Categorical Encoding)

Professional Associations/Societies

AWS Michigan, Ann Arbor/Detroit NLP, Automotive AI Community, PyData Ann Arbor

Language Skills (varying proficiency)

Spanish, French, German, Portuguese