JOHN M. DENNIS
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https://john-dennis-ai.github.io/

Blue Orange Digital
Data Scientist Position

Dear Blue Orange Digital's hiring team:

I have extensive experience in applying technical solutions to business problems using advanced technologies to take raw data and produce meaningful information. I also have a proven track record of learning new technologies and sharing them within my organization. I am confident that as your data scientist, I will be able to add significant value and help your company achieve its objectives. Please see how I meet your requirements below:

Your Requirements	**My Qualifications**
• A strong background in advanced mathematics, in particular in probability theory and statistics, data mining, and machine learning.	• I have a Master of Science in Computer Science & Engineering, and I have achieved four LinkedIn Learning Path certifications for Artificial Intelligence, Machine Learning, Data Science, and Python Programming.
• Experience in Natural Language Processing (keyword extraction and sentiment analysis).	• I have experience with sentiment analysis, wordcloud development, and TF-IDF analysis. Please follow my GitHub link above to see examples of my work in this area.
• 4+ years of professional experience in data science, doing exploratory data analysis, testing hypothesis, and building predictive models.	• I have over 10 years of professional experience working with data to provide data-driven reports and predictive models.
• Proficiency in Python and previous experience efficiently conducting research and creating ad hoc reports.	• I am a certified Python programmer and I have experience researching data and creating reports. I also have experience using data from Kaggle and Data.world. Please follow my GitHub link above to see examples of my work in this area.
• Familiarity with Scala/Spark a plus.	• I have successfully completed courses that cover Spark and PySpark, and other MapReduce methodologies.
• Be eager to help your teammates, share your knowledge with them, and learn from them.	• I have several years of experience teaching evening courses at local colleges and universities. I enjoy teaching others and learning from them as well.

I would greatly appreciate the opportunity to work with you and make a difference at Blue Orange Digital. I look forward to meeting with you to further discuss my qualifications. Please see my attached resume and LinkedIn profile for more information about my experience and projects, including some LinkedIn articles that I have written.

Sincerely,

John M. Dennis

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john-dennis-ai.github.io/ (Project Portfolio)

EMERGING TECHNOLOGY LEADER
Empowering People by Harmonizing Technology & Data

Senior Information Technology and data-driven professional with extensive industry experience in the fields of Artificial Intelligence 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.

- **Artificial Intelligence/Machine Learning**
- **Strategic Research**
- **Emerging Technologies/Data Science**
- **Cognitive Computing**

PROFESSIONAL EXPERIENCE

FORD MOTOR COMPANY, Dearborn, MI

Emerging Technology & Development Tools Leader   **2016 to Present**
Responsibilities include 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
- 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, such as Raspberry Pis, NVIDIA Jetson Nano devices, and vision recognition kits
- 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   **2008 to 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   **2002 to 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 projects to customers. Business-critical IT tools and services delivered included:

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

Statistical Analyst & Simulation Specialist   **1994 to 2002**

Provided technical expertise and consulted with business operations using statistical analyses and simulation modeling to improve process efficiencies within Ford's manufacturing facilities.

- Delivered several process improvement models to manufacturing engineers at multiple plants in the U.S. and Canada
- Collaborated with vendors to integrate their technologies in support of a virtual manufacturing center
- Awarded two Ford Invention Disclosures as a result of studying existing production operations and proposing simulation models for improving manufacturing processes

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

Chief Software Engineer & Trading System Developer   **2008 to 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
- Traded and managed commodity futures accounts for private investors
- Utilized genetic algorithms and neural networks to improve performance of trading systems
- Applied Monte Carlo simulations and other statistical methods to validate out-of-sample trading system performance before trading live accounts

ADDITIONAL RELEVANT EXPERIENCE & SKILLS

Schoolcraft College, **Computer Science Instructor (Evenings), Adjunct Faculty** (1995 to 2016)
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, **Computer Science Instructor (Evenings), Adjunct Faculty** (1997 to 1998)
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 have successfully completed **over 50 technical courses** on LinkedIn Learning (Lynda.com) including the following four **learning path certifications**:

- **Master AI & Machine Learning**
- **Data Scientist**
- **Machine Learning Specialist**
- **Python Developer**

Other topics I have experience with or familiarity with include:
AWS Lex, TensorFlow, Kubernetes, Docker, Anaconda, Jupyter, VS Code, Pandas, NumPy, SciPy, Scikit-Learn, Tkinter, Django, OpenCV, SPSS, SQL, PostgreSQL, Tableau, GitHub, Deep Learning, Transfer Learning, Ensemble Learning, Apache Spark, Databricks, Kaggle, Data.world, Data Mining, Data Cleaning, Data Visualization, and Data Storytelling

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