David Caspers

703-999-1959, caspersdavid@gmail.com, GitHub Portfolio, LinkedIn

PROFESSIONAL SUMMARY

Versatile Data Scientist and Marine Corps Veteran with a solid foundation in machine learning, NLP, predictive analytics, and data engineering. Proven skills in communicating complex technical concepts to diverse audiences, collaborating with customers, executives, and engineering teams to align data-driven solutions with business objectives. As Marine Corps Officer, proficient in leading cross-functional teams, managing multimillion-dollar portfolios, and executing mission-critical operations. Adept at applying data-driven decision-making to both business and technical challenges.

CORE COMPETENCIES

- Machine Learning & Deep Learning
- Natural Language Processing
- Data Analysis & Visualization
- Data Engineering & Processing
- Cloud Computing
- Software Development
- Project Management
- Strategic Planning
- Business Intelligence & Sales

DATA SCIENCE AND IT SALES EXPERIENCE

Data Science Applied Research, Syracuse University, Syracuse, NY Fall 2024

- Designed a methodology to infer politicians' political ideology from their public statements to determine how their rhetoric aligns with their political affiliations.
- Sourced custom corpus of politician's public statements from scraping online sources with 37K+ opinion-based sentences from currently elected Senators.
- Automated ideological stance assessment by fine-tuning BERT models, achieving an initial 60% correlation with expert rankings, streamlining political analysis.
- Tools & Technologies: BeautifulSoup, BERT, TensorFlow, Scikit-learn, Pandas, NumPy, spaCy

Data Science Applied Research, Syracuse University, Syracuse, NY Fall 2024

- Developed a deep learning model for automated lung cancer detection from histopathological (stained cell) images, achieving diagnostic accuracy comparable to that of medical experts.
- Enhanced models interpretability by leveraging attention maps to highlight image key features leading to diagnosis.
- Software & Tools: Python, TensorFlow, Keras, Hugging Face Transformers
- Models Used: Convolutional Neural Networks (CNNs), Vision Transformers, Attention Mechanisms

Data Science Applied Research, Syracuse University, Syracuse, NY Summer 2024

- Assembled a geospatial vessel activity analysis pipeline using time series data to automatically detect commercial fishing activity to assist in identifying illegal, unreported, and unregulated (IUU) fishing.
- Achieved 88% accuracy in distinguishing fishing activity from transit and docking
- Software & Tools: Python, Jupyter Notebook, pandas, numpy, matplotlib, seaborn, GeoPandas, shapely, scikit-learn
- Models Used: K-Means, DBSCAN, Random Forest, Linear SVM, Polynomial SVM, Radial Basis Function (RBF) SVM

Commercial Account Executive, *Confluent,* Austin, TX Apr 2023-March 2024

- Expanded existing customer usage by 15% YoY by collaborating with data engineers, architects, and executives, to align real-time data infrastructure with their business' objectives and budgetary constraints.
- Partnered with business executives to translate complex technical concepts to align with strategic goals, securing executive buy-in and shortening average territory sales cycle by 12%.
- Used data-driven territory planning and customer retention strategies to consistently exceed pipeline targets.

Junior / Senior Sales Development Representative, *Confluent,* Austin, TX Oct 2020-Mar 2023

- Partnered with data and engineering teams to develop account strategies and solution briefs for public sector clients, ensuring data infrastructure solutions aligned with agency needs.
- Analyzed customer data to optimize outreach, driving a 256% YoY pipeline increase and earning formal recognition as top performer in-role globally.

PROJECT MANAGEMENT AND MILITARY EXPERIENCE

Executive Officer, *US Marine Corps,* Camp Lejeune, NC Oct 2018-Aug 2020

- Orchestrated strategic planning and operational execution for 300+ geographically dispersed personnel over a two-year period, including overseas deployments. Awarded the Navy and Marine Corps Achievement Medal for superior performance.
- Planned and briefed strategic initiatives and operational plans to senior leadership, ensuring alignment with organizational objectives and mission success.
- Oversaw a $3.5M equipment portfolio, ensuring security, maintenance, and accountability, achieving a "zero-loss" record over two years.

Commander, *US Marine Corps,* Camp Lejeune, NC Jan 2018-Oct 2018

- Mentored and trained a team of 40+ personnel, successfully leading the unit through a 6-month deployment to East Asia.
- Facilitated administrative operations, including payroll, legal compliance, family support, and onboarding, ensuring zero administrative discrepancies and smooth personnel management.
- Enforced logistical accountability and optimized resource utilization, maintaining 100% equipment readiness and zero-loss inventory across all deployed assets.

SKILLS

Computer Languages & Libraries: Python (PCAP Certified), SQL, R, Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib, Seaborn, spaCy, NLTK, Dash
Software: Microsoft Office Suite, Git, Jupyter Notebook, Git, Linux, Tableau, Microsoft Office Suite
Big Data & Cloud Tools: Apache Spark, AWS (Certified: Cloud Practitioner, Solutions Architect - Associate, Machine Learning - Specialty), GitHub

EDUCATION

Syracuse University, College of Information Studies, Syracuse, NY Apr 2025
Master of Science in Applied Data Science

US Marine Corps, The Basic School - Infantry Officer Course, Quantico, VA Dec 2017
Graduated 9 of 275 **-** Commanding General's Honor Role

University of Delaware, Alfred Learner College of Economics, Newark, DE May 2016
Bachelor of Science in Finance - Honors
Bachelor of Science in Economics - Concentration in Quantitative Economics and Econometrics