New York, USA • emeronit@gmail.com • 347-337-7203

# Emeron Marcelle

*Doctor of Information Technology*

**PROFESSIONAL SUMMARY**

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Doctoral Scholar of Information Technology with over 7 years of experience in the IT sector. Passionate about machine learning and computer vision innovation. Skilled in Scikit-Learn, TensorFlow, and Python, with a proven track record in creating models, automating processes, and improving system performance. Committed to continuous innovation and advancing technology solutions.

**LINKS**

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- **LinkedIn:** https://www.linkedin.com/in/emeron-marcelle-22457186/
- **GitHub:** https://github.com/Emeron16/UCSD/tree/main
- **Portfolio:** https://sites.google.com/view/emeronsmachinelearning/home

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**Education**

- **Doctorate in Information Technology**
  Capella University | **Oct 2022 – March 2025**
- **Machine Learning Engineering Bootcamp**
  UC San Diego Extension | **May 2024 - Oct 2024**
    - 6-month intensive course in artificial intelligence and machine learning technologies and methods.
- **Master's in Computer Science**
  Brooklyn College | **Aug 2017 - Jun 2019**
- **Bachelor's in Computer Information Systems**
  New York City College of Technology | **Aug 2011 - Jun 2015**

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**Technical Skills**

Jupyter Notebook, Python, Batch Scripting, TensorFlow, Keras, Scikit-Learn, Pandas, Matplotlib, Machine Learning, Git, SQL, GitHub, Google Colab, AWS

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## Professional Experience

### AI Expert Contributor
*Snorkel AI, Remote | Jan 2025 - Present*

- Developed graduate-level AI research questions requiring deep domain expertise, complex reasoning, and nuanced understanding, contributing to the development of complex AI models.

### Founder
*The Affinite, New York | Nov 2024 - Present*

- Designed and deployed scalable infrastructure using AWS EC2, S3, CloudFront, and RDS, ensuring high availability and efficient data storage.
- Built robust web applications with Flask/Python, PostgreSQL, and modern JavaScript frameworks, integrating real-time data processing and dynamic relationship visualizations.
- Implemented role-based authentication, optimized database queries, and leveraged caching for faster page loads and reduced latency.
- Designed algorithms for smart relationship inference and automated notifications, with a focus on performance and user experience.

### Systems Support Engineer
*Celonis, New York | Jan 2022 - May 2024*

- Conducted data analysis in ServiceNow, boosting operational efficiency by 10%.
- Automated over 2,000 devices with Intune and Kandji, significantly cutting setup time.
- Configured network infrastructure, enhancing system performance and uptime.
- Managed IT environments with Active Directory and Azure, reducing unauthorized access.

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## Internships

### Machine Learning Engineer
*A&J Luxury Event Planning, New York | Nov 2024 – March 2025*

- Implemented automated services like Zapier to document service interactions for future data analysis.
- Developed and deployed machine learning models to predict optimal posting times, target audiences, and platforms for maximizing social media engagement.

- Designed and implemented data pipelines for collecting, cleaning, and preprocessing data from social media analytics tools, CRM systems, and external sources like seasonal trends and competitor activities.

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**Projects**

**Project 1: Smart Manufacturing Adoption Barriers in U.S. SMEs**

- **Goal:** Quantitatively analyze barriers hindering the adoption of Smart Manufacturing technologies, specifically robotic process automation (RPA), within U.S. Small and Medium-sized Enterprises (SMEs).
- **Data Science & Software Engineering:**
    - **Data Preparation:** Utilized Pandas and NumPy within the Python programming language to clean, transform, and prepare survey data received from SurveyMonkey into a numerical format suitable for analysis.
    - **Model Development:** Employed JASP, a statistical software tool, to conduct correlational analysis and assess the impact of identified independent variables on the adoption of Smart Manufacturing technologies.
- **Teamwork & Communication:** Collaborated effectively with a mentor and cohort members to develop key data analysis goals, ensuring close attention to detail and fostering open communication throughout the project.

**Project 2: Hand Gesture Recognition for Enhanced User Interfaces**

- **Goal:** Develop high-accuracy hand gesture recognition models to enhance user interfaces across various interactive platforms, including smart TVs, virtual reality, and industrial machinery.
- **Model Development:**
    - Employed PyTorch, a deep learning framework, to build and train robust hand gesture recognition models.
    - Utilized Google Cloud services, such as Google Colab, for model development and training, leveraging their computational resources (e.g., GPUs) to accelerate the process.

- **Software & Programming Languages:** Proficient in Python programming and cloud development frameworks for efficient model training and deployment.
- **Cloud Platforms:** Leveraged AWS cloud resources (e.g., GPU instances) to accelerate the data processing and analysis pipelines.

- **Production Systems & Maintenance:** Focused on improving model accuracy to foster intuitive and reliable control systems across interactive platforms, ensuring the robustness and maintainability of the developed solutions.