Hussein Mazloum

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Summary

Test Technician skilled in optimizing system performance through advanced testing and troubleshooting. Experienced in Python and data analysis, with a portfolio focused on impactful, business-driven projects. Pursuing a master's in Data Science and seeking to transition into software engineering or data science to deliver data-driven solutions.

Education

University of Michigan

Ann Arbor, MI Expected May 2026

Master of Science (MS) in Data Science

Wayne State University

Detroit, MI

Bachelor of Science (BS) in Biological Science

Experience

Latitude AI Dearborn, MI

Test Technician February 2023 - Present

 Improved system validation by developing and refining testing methods, resulting in a 20% increase in detection of system issues.

- Resolved critical software and hardware issues, enhancing system stability and reducing error rates by 15%.
- Executed comprehensive tests on various hardware and software components, ensuring 100% compliance with safety and performance standards.
- Maintained up-to-date test documentation, supporting more efficient testing procedures and reducing documentation errors by 25%.
- Drafted detailed release notes that clarified bug fixes and new features, streamlining software releases and improving stakeholder communication.

Argo Al Dearborn, MI

Test Technician, Autonomous Vehicle Test Specialist

January 2019 - February 2023

- Operated autonomous vehicles with strict adherence to safety protocols, ensuring zero safety incidents.
- Monitored vehicle software performance, providing feedback that led to a 15% improvement in software stability.
- Documented critical errors and events, facilitating targeted improvements in software and system design, reducing error rates by 25%.
- Collaborated with engineering teams to meet vehicle test requirements, contributing to successful project outcomes and advancements in autonomous technology.

Projects

Predicting Customer Loyalty Using Machine Learning | Python, Pandas, Scikit-learn, Machine Learning

- Compiled key customer metrics of a grocery retailer to predict missing customer loyalty scores using machine learning, enabling more accurate customer tracking and targeted communications.
- Tested three regression models: Linear Regression, Decision Tree, and Random Forest.
- Selected Random Forest for its highest predictive accuracy with an Adjusted R-Squared of 0.955 on the test set and 0.925 on 4-fold cross-validation.

Quantifying Sales Uplift With Causal Impact Analysis | Python, pycausalimpact

- Analyzed the impact of a grocery retailer's Delivery Club membership campaign on customer spending using pycausalimpact.
- Built a control group and counterfactual scenario using non-member customers to quantify the uplift in spending post-membership.
- Found a 41.1% sales uplift for customers joining the club, with a 95% confidence level, indicating the success of the campaign.

Technical Skills

Languages: Python, SQL, R, HTML, CSS, JavaScript

Technologies & Tools: Pandas, NumPy, Scikit-Learn, Jupyter, Matplotlib, Seaborn, Tableau, Docker, AWS, Git, Jira, Linux **Concepts**: Data Analysis, Machine Learning, Deep Learning, Natural Language Processing, A/B Testing, Cloud Computing