

# Tucker Macias

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## SUMMARY

PhD candidate specialized in Machine Learning and Data Science, actively involved in research that utilizes advanced statistical methods and algorithms. Hands-on experience gained through academic projects focused on travel analytics shows unique capacity to convert complex data into understandable insights. Effective communicator able to present findings engagingly, ensuring clarity for diverse audiences. Eager to apply analytical skills at Tech Innovators LLC and contribute innovative solutions to enhance user experiences and meet business objectives successfully.

## EDUCATION

### PhD in Computer Science

2025

Tech Innovations University GPA: N/A

Champaign, IL

**Coursework:** Algorithms, Machine Learning, Data Mining, Statistical Analysis

## TECHNICAL SKILLS

- **Programming Languages:** Python, SQL, R
- **Machine Learning Techniques:** Regression, Neural Networks, Deep Learning
- **Statistical Tools:** A/B Testing, Feature Engineering, Data Preprocessing
- **Data Management:** ETL Processes, Data Warehousing, Database Design
- **Cloud Platforms:** AWS, Google Cloud, Azure
- **Data Visualization Tools:** Tableau, Power BI, Matplotlib
- **Communication Tools:** Slack, Microsoft Teams, Zoom
- **Version Control Systems:** Git, SVN, GitHub
- **Documentation Standards:** IEEE, APA, Chicago
- **Project Management Frameworks:** Agile, SCRUM, Waterfall

## SKILLS

- Python
- Machine Learning
- Data Visualization
- SQL
- Natural Language Processing
- Cloud Computing
- R
- Statistical Analysis
- A/B Testing

## EXPERIENCE

### Machine Learning Research Assistant

August 2024 - Present

University Research Lab

Champaign, IL

Support various research initiatives focusing on machine learning methodologies and applications in travel analytics within an academic environment. Collaborate closely with faculty and students, driving innovation and contributing to knowledge advancement.

- Conducted research utilizing machine learning algorithms to optimize data processing in travel analytics.
- Developed and implemented statistical models, achieving significant improvements in predictive accuracy.
- Collaborated on a project analyzing travel data, resulting in improved algorithm performance for customer recommendations.
- Used Python and SQL for data manipulation and analysis, enhancing data-driven decision-making processes.
- Presented findings to faculty and peers, simplifying complex methodologies for broader understanding.
- Contributed to the publication of research papers in reputable journals, highlighting innovative solutions in machine learning.

### Capstone Project Developer

January 2024 - May 2024

Tech Innovations University

Champaign, IL

Led a team focused on the creation of predictive models centered on travel user behavior. Engaged with industry professionals to ensure alignment with market trends and user needs.

- Led a team in developing a predictive model for analyzing travel user behavior, utilizing Python and R for implementation.
- Conducted feature engineering and data preprocessing to enhance model accuracy, resulting in a 30% increase in prediction reliability.
- Applied A/B testing methodologies to validate model effectiveness, presenting results in an accessible format to stakeholders.
- Engaged with industry mentors to refine project goals and align outcomes with market needs.
- Utilized cloud computing resources to manage large datasets efficiently, fostering a robust analytics framework.
- Received commendation for innovative approach to problem-solving and collaborative teamwork during project presentations.

## LEADERSHIP & AWARDS

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- Dean's List, Tech Innovations University, 2023
- Best Research Project Award, Machine Learning Conference, 2024

## CERTIFICATIONS

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- Data Science Professional Certificate 📅 2025
- Machine Learning Foundations: A Case Study Approach 📅 2025

## PROFESSIONAL AFFILIATIONS

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- Member, AI and Machine Learning Society, Tech Innovations University
- Volunteer, Local Community Tech Workshops, 2025

## LANGUAGES

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- English (Native) • Spanish (Intermediate)

## ADDITIONAL INFORMATION

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**Work Status** : Authorized to work in United States. No sponsorship required.

## REFERENCES

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AVAILABLE ON REQUEST