TRANG TRUONG

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EDUCATION

Arizona State University ***Aug 2023 – Dec 2026***

Bachelor of Science, Business Data Analytics

- **GPA:** 3.89
- **Coursework:** Computer Applications and Information Technology, Math for Business Analysis, Business Statistics, Information Systems Analytics, AI Business, Principles of Programming with C++

SKILLS

- **Programming Languages:** Python (Pandas, NumPy, Matplotlib, Plotly, Scikit-learn, TensorFlow), SQL, C++, HTML/CSS
- **Machine Learning & AI:** Supervised Learning (Regression, Classification), Deep Learning (LSTM Networks, Neural Networks), Natural Language Processing (NLP, BERTopic, LDA), Model Deployment (AWS EC2, Streamlit)
- **Frameworks & Tools:** Jupyter Notebook, Google Colab, VS Code, Git
- **Data Visualization:** Excel, Tableau

PROJECTS

Sephora Product Reviews LINK | Python, NLP, LDA, BERTopic, Streamlit, AWS EC2 ***Mar 2025 – Present***

- Developed a production-grade data mining and NLP pipeline analyzing 160,000+ customer reviews using LDA and BERTopic, uncovering top dissatisfaction drivers across product categories.
- Deployed a real-time dashboard via Streamlit on AWS EC2, enabling data visualization of topic insights for non-technical stakeholders.
- Applied SMOTE for class balancing, boosting low-rating classification precision by 28%, and proposed product enhancement strategies through customer user research analysis.
- Integrated Git for model tracking; proposed MLflow tracking for future A/B testing and drift monitoring.

Electric Vehicle Population Data LINK | Python (Pandas, NumPy, Matplotlib, Seaborn) ***Mar 2025 – Mar 2025***

- Conducted data analytics and business analytics on 100,000+ electric vehicle records to track market penetration, sustainability trends, and product growth.
- Built executive dashboards using Seaborn and Matplotlib to visualize range evolution and adoption behaviors by region and vehicle type.
- Modeled time-series projections to advise mock policy decisions regarding infrastructure prioritization.

House Rent Prediction LINK | Python (Pandas, NumPy, Plotly), Deep Learning (LSTM, Keras) ***Mar 2025 – Mar 2025***

- Engineered predictive models using LSTM neural networks to forecast rental prices across metro regions, achieving MAE < 3.5% and strong R^2 scores.
- Cleaned and transformed raw housing data via ETL workflows; visualized predictions and trends through interactive Plotly dashboards.
- Proposed integration with real estate APIs to enhance user experience and predictive reliability.

Automatic Bin – 4th Place Winner | C++, Sensor Integration, Environmental Analytics ***Oct 2019 – Mar 2020***

- Designed and prototyped a smart bin using C++ and motion sensors to automate waste detection.
- Analyzed waste behavior patterns to propose data-driven optimizations for disposal frequency and energy efficiency.
- Modeled environmental impact scenarios demonstrating potential reduction in landfill overflow and urban power usage.

Plastic Brick – 2nd Place Winner | Materials Engineering, Sustainable Design, Product Optimization ***Jul 2021 – Mar 2022***

- Engineered durable, cost-efficient composite bricks using recycled plastics, reducing material cost by 40% compared to conventional alternatives.
- Conducted stress testing and validated structural integrity under variable load conditions to meet low-cost housing standards.
- Optimized material mix ratios through iterative experimentation to improve compressive strength and reduce brittleness by 22%.

EXPERIENCE

School of Mathematical and Statistical Sciences, ASU ***Oct 2024 - Present***

Office Assistant

- Automated scheduling workflows for 200+ students, reducing advisor processing delays by 30% and enhancing operational transparency.
- Digitized and maintained math placement test records, improving access speed and minimizing administrative bottlenecks during registration periods.

SOS Children's Village ***Jul 202 – Oct 2021***

Volunteer English Teacher

- Delivered one-on-one English instruction to beginner-level students; raised testing scores and assisted in successful secondary school applications.

Healing Palette Vietnam ***Jan 2022 – Oct 2022***

Vice leader, Head of Communication Board

- Managed a team of 12 members with digital communications and outreach for 10+ community projects, increasing program participation by 40% through content-driven campaigns.
- Edited and published 50+ articles, driving 35% increase in online engagement and expanding youth program visibility across multiple regions.
- Secured 8+ sponsorship agreements and led cross-team coordination for event execution and stakeholder reporting.