TRANG TRUONG

(650) - 267 - 1710 | trangtruong.071105@gmail.com | LinkedIn | Portfolio | GitHub

EDUCATION

Arizona State University *Aug 2023 - Dec 2026*

Bachelor of Science, BusinessData Analytics

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

SKILLS

- **Programming Languages:** Python, SQL, C++, HTML/CSS
- **Machine Learning & AI:** Supervised Learning (Regression, Classification), Deep Learning (LSTM Networks, Neural Networks), Natural Language Processing (NLP, BERTopic, LDA), Model Evaluation (MAE, RMSE, R^2), Model Deployment (AWS EC2, Streamlit), A/B Testing Design, SMOTE for Imbalanced Datasets, ETL Pipelines, Data Pipelines
- **Frameworks & Tools:** Pandas, NumPy, scikit-learn, Google Colab, Jupyter Notebook, VS Code, Git, Excel, Tableau
- **Soft Skills:** Cross-functional Collaboration, Communication, Agile Project Management, Process Optimization

PROJECTS

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

- 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.

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.

EXPERIENCE

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

Office Aide

- 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 *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 *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.

ACADEMIC COMPETITIONS

- **Automatic Bin (4th Place Winner):** Designed a C++-based sensor-integrated smart bin to reduce energy usage and monitor waste patterns; analyzed environmental impact scenarios for sustainable use cases.
- **Plastic Brick (2nd Place Winner):** Built and tested eco-friendly plastic composite bricks for durability and affordability; optimized material mix ratios for application in low-cost construction markets.