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:** Scikit-learn, PyTorch, TensorFlow, BERTopic, Natural Language Processing (NLP), Deep Learning, Model Evaluation (MAE, RMSE, R^2), LSTM
- **Data Analysis & Visualization:** Pandas, NumPy, Matplotlib, Seaborn, Plotly, Tableau, Excel, Data Wrangling, Exploratory Data Analysis (EDA), Data Cleaning
- **Data Engineering Tools:** ETL Pipelines, Data Pipelines, Google Colab, Jupyter Notebook, VS Code, Git, Data Preprocessing, Feature Engineering
- **Databases & Querying:** SQL, Relational Databases, Data Modeling, Data Transformation
- **Soft Skills:** Cross-functional Collaboration, Communication, Agile Project Management, Process Optimization

PROJECTS

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

- Analyzed 100,000+ electric vehicle records to identify market penetration trends, range evolution, and top-performing manufacturers.
- Conducted time-series forecasting to simulate future growth curves by region and vehicle type; advised mock policy for infrastructure rollout prioritization.
- Presented insights in an executive-ready visual dashboard using Seaborn and Matplotlib, emphasizing EV sustainability goals and consumer adoption behavior.

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

- Constructed and trained deep learning models to forecast rental prices across metro regions using time-series LSTM architecture.
- Cleaned and normalized input data from scraped housing datasets; engineered temporal and categorical features to improve model generalization.
- Built an interactive Plotly dashboard for rent predictions with user-defined filters; designed MAE/R^2 evaluation module and proposed integration with real estate APIs.

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

- Developed a production-grade NLP pipeline to analyze 160,000+ customer reviews, using LDA and BERTopic to uncover top 5 customer dissatisfaction drivers across product categories.
- Deployed an interactive Streamlit dashboard on AWS EC2, enabling real-time exploration of topic insights by non-technical stakeholders.
- Applied SMOTE to balance sentiment classes and boosted low-rating classification precision by 28%, leading to mock product roadmap recommendations simulating customer retention strategies.
- Integrated model tracking and version control with Git; proposed MLflow tracking for future A/B testing and topic 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 2020 ***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.