GUNNAR AUSTIN

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PROFESSIONAL SUMMARY

Data science student with hands on experience in Python, SQL, statistical modeling, and data analysis. Built projects involving customer churn prediction, housing market forecasting, and urban accessibility analysis using tools such as pandas, NumPy, scikit learn, and Matplotlib. Experienced in cleaning data, engineering features, evaluating model performance, and translating results into clear insights. Seeking opportunities to apply technical and analytical skills to business and operational decision making.

EDUCATION

Michigan State University **August 2023 - April 2027**
Bachelor's, Data Science *GPA: 3.2*
- Relevant Coursework - Statistics, Data Analysis, Machine Learning, Database Systems, Programming with Python and C++

PROFESSIONAL EXPERIENCE

ESE Consultants **Novi, Michigan**
Intern *April 2025 - August 2025*
- Collected and validated field measurement data using GPS and total station technology, improving measurement accuracy by 30 percent across engineering projects.
- Verified newly collected data against established control points, identifying and resolving discrepancies to maintain data quality and support accurate project deliverables.
- Worked with engineers to plan data collection workflows based on project specifications, accuracy requirements, and site conditions.

Northville Hills Golf Club **Northville, Michigan**
Guest Assistant/Banquet Staff *June 2023 - April 2025*
- Supported daily operations by preparing and maintaining more than 100 golf carts and related equipment for 300 or more members and guests each week.
- Delivered customer service during golf outings and banquet events, contributing to a 95 percent satisfaction rating from customer feedback surveys.
- Managed multiple operational responsibilities in a fast paced environment, demonstrating reliability, time management, and strong service skills.

PROJECTS - GITHUB.COM/AUSTI20

Customer Churn Prediction Model | Personal project, Python, pandas, scikit learn
- Cleaned and prepared a dataset of more than 7,000 customer records containing demographic, service usage, and account history variables.
- Engineered features such as tenure, contract type, and support history, then trained logistic regression and tree based models to improve churn prediction accuracy by 15 percent.
- Evaluated model performance using accuracy, precision, recall, and ROC AUC, and analyzed feature importance to identify major drivers of customer attrition.

Global Housing Market Forecasting | CMSE 201 course project, Python, pandas, NumPy, Matplotlib, SciPy
- Cleaned and transformed time series housing data to prepare rent and price indices for long term forecasting analysis through 2035.
- Applied curve based models to forecast housing trends and compare projected rent and price movement across more than 10 countries.
- Analyzed cross country patterns in housing markets to generate insights relevant to long term investment and market trend evaluation.

Urban Accessibility and Travel Time Analysis
- Combined OpenStreetMap and transportation network data to estimate travel times from neighborhoods to essential services such as grocery stores and clinics.
- Calculated accessibility metrics including average travel time and the share of residents within selected travel thresholds.
- Compared accessibility patterns across neighborhoods to identify differences in access to key services across the city.

SKILLS

Skills: Matplotlib, SciPy, Pandas, NumPy, Postgres, Excel/Numbers/Sheets, C++, SQL, Data Visualization, Scikit-learn, Statistical Modeling, Communicaiton