

Sujit Kunwor

Education

- PhD, Data Science – The University of Alabama, Tuscaloosa, AL
- MS, Applied Statistics – The University of Alabama, Tuscaloosa, AL
- MS, Biological Sciences – The University of Alabama, Tuscaloosa, AL
- BA, Mathematics & Biological Sciences – Caldwell University, Caldwell, NJ

Skills

Model development, model validation and model deployment

Strong written and spoken communication skills

Tools

Python, R/RStudio, SQL, SAS, Azure, TensorFlow, PowerBI, Tableau

Techniques

Machine Learning, Natural Language Processing, Regression, Time Series Analysis, Multivariate Analysis, Deep Learning, Network analysis/graph theory

Appointments

Associate Professor, University of St Thomas – Houston, Houston TX (Aug 2026 -)

Data Scientist, McLeod Software, Birmingham, AL (Oct 2019 –Aug 2026)

Data Science Intern, JPMorgan Chase & Co., Columbus, OH (Summer 2018 & 2019)

President, Data Analytics Club, Tuscaloosa (Aug 2018 – Sep 2019)

Research Assistant, Institute of Business Analytics, University of Alabama (Aug 2018 – Dec 2019)

Teaching Assistant, Department of Information Systems, Statistics and Management Science, University of Alabama (May 2017 – May 2018)

Research Data Analyst, Department of Biological Sciences, University of Alabama (Aug 2014 - May 2017)

Projects

Human Trafficking project using Natural Language Processing

Used web-scraped advertisement data from backpage.com for spa, message, escort and more for text parsing, filtering and clustering methods. Performed concept linkage, segment analysis and sentiment analysis. Studied the trends and patterns of advertisement writing style and travel pattern of person posting in the webpage.

Preterm Birth Prediction

Machine Learning algorithms were used (random forest and gradient boosting) to study the effect of neighborhood level factors in addition to individual health status on prediction of preterm births

Network Analysis

Used Alabama counties as nodes to construct a network that was used to compute the network centrality properties. The metrics were then used in predictive models to forecast the number of patients travelling cross-county to get healthcare.

Rate Analysis

Analysis of freight rate per mile used in trucking industries. Used regression modelling to predict rates going to/ coming from certain markets. Used random forest classifiers to exclude rates that were outside the normal ranges for a particular market, season or trailer type.

Certifications

- Python Data Scientist, DataCamp
- PowerBI certification
- SAS Certified Predictive Modeler using SAS Enterprise Miner 14
- SAS Certified Base and Advanced Programmer for SAS 9

Publications

- Zhao, J., Olivas, P., Kunwor, S., Malone, S., Staudhammer, C.L., Starr, G., and Oberbauer, S.F.
(2018). Comparison of Sensible Heat Flux Measured by Large Aperture Scintillometer and Eddy Covariance in a Seasonally-inundated Wetland.
- Kunwor, S., Starr, G., Loescher, H. W., Staudhammer, C. L (2017). Preserving the variance in imputed eddy-covariance measurements: alternative methods for defensible gap-filling. Agriculture and Forest Meteorology.
- Starr, G., Staudhammer, C. L., Wiesner, S., Kunwor, S., Loescher, H. W., Baron, A. F., Whelan, A., Mitchell, R. J., Boring, L (2016). Carbon dynamics of Pinus palustris ecosystems following drought. Forests. 7(5) doi:10.3390/f050098
- Yahiro, A.M., Wingo, B.C., Kunwor, S., Parton, J., Ellis, A.C. Classification of obesity, cardiometabolic risk, and metabolic syndrome in the spinal cord injury population. Journal of Spinal Cord Injury