

Harsha Veena Tadavarthy

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SUMMARY

- Experienced Data Analyst adept at thriving in a fast-paced environment with a proven track record of innovative problem-solving, leveraging analytical techniques, and delivering results that have a direct impact on the bottom line.
- Adept at generating visualizations that aid in uncovering the underlying insights of the data.
- My expertise includes Python programming, data manipulation, data modelling, data visualization, data forecasting and data storytelling.
- A Lifelong learner with a leadership mindset, actively seeking career development opportunities to further enhance my skill set and contribute to organizational success.

EDUCATION

University of Georgia

Athens, GA

Masters of Science, Artificial Intelligence GPA: 3.79/4.00

Expected Graduation: May 2024

SASTRA Deemed University

Thanjavur, India

Bachelor of Technology, Electrical and Electronics Engineering GPA: 7.6/10.0

2014 - 2018

TECHNICAL SKILLS

- *Technical skills:* VBA (Visual Basic Applications) Macro; Python – NumPy, Pandas, SciPy, Matplotlib Scikit-Learn, Keras, TensorFlow, NLTK; SQL; Tableau Desktop; MS Excel; JMP; Microsoft Word; Microsoft PowerPoint, Google Sheets.
- *Cloud Platforms:* Amazon Web Services (beginner)
- *Survey Platforms:* Qualtrics
- *Spoken Languages:* Telugu, English, Hindi, Tamil, and Kannada.

WORK EXPERIENCE

Career Center – University of Georgia

Athens, GA

Data Analytics Intern

Aug 2022 – Present

- Organize 10,000+ student data from different data sources, perform data cleaning, and data analysis by using MS Excel.
- Design surveys using Qualtrics to gather post-graduation data from the graduated students which was a critical component (30%) of the overall data collection process.
- Determine and resolve data collection issues, ensuring accurate and reliable data.
- Develop comprehensive documentation outlining the entire process of data preparation.

Tata Consultancy Services

Bengaluru, India

iTeam (Installation Team), Data Analyst, Applied Materials (AMAT)

Oct 2020 - Dec 2021

- Enhanced project workflow in an Agile environment by creating Tableau Dashboards, which subsequently improved the organization and planning of travel schedules for installation coordinators, delivering significant business insights.
- Automated the report generation using VBA (Visual Basic Applications) Macro by considering installation coordinator availability, tool installation needs, and priority customers, which reduced 5 hours of manual effort to just 10 minutes.
- Successfully worked within a team of three, utilizing excellent communication and coordination skills.
- Utilized SQL to monitor and manipulate relational databases and automated data preparation tasks through VBA Macros.

Corona Virus Risk Mitigation Team, Macro Developer, Cisco Systems Inc.

Feb 2020 - Sep 2020

- Identified trends in high-risk parts utilizing predictive analytics and created high-impact reports, which were then presented to clients, aiding them in making informed business conclusions.
- Achieved a 93% increase in productivity and cost savings of \$24k by creating a VBA (Visual Basic Applications) Excel macro to automate the cleaning of large data sets.
- Proficiently conducted statistical analysis and employed process improvement methodologies while demonstrating strong task management and prioritization abilities, ensuring the timely delivery of projects.
- Acquired Lean Certification for exceptional project management, demonstrating excellent effectiveness with a

focus on continuous improvement.

Product Engineer Accelerated Support Service Team, System Engineer, Cisco Systems Inc. Aug 2018 - Jan 2020

- Generated Engineering Change Orders (ECOs) for End-of-Life products and independently implemented Python to automate data pre-processing, achieving substantial time savings of 8 hours.
- Enhanced stakeholder support by facilitating a consistent flow of communications and ensuring the seamless implementation of changes.
- Collaborated with vendors and customers to modify and analyze data, effectively reporting the findings that contributed to data-driven decision-making processes.

PROJECT EXPERIENCE

A comparative study of Real-Time American Sign Language (ASL) Using Explainable AI (XAI) April 2023

- Developed Real-Time ASL by utilizing machine learning techniques such as Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Decision Trees, K-Nearest Neighbor (KNN), Naive Bayes, Random Forest, and Support Vector Machines (SVMs).
- Incorporated Explainable AI (XAI) techniques to identify the underlying causes of misclassifications.
- Employed Principal Component Analysis (PCA), alongside bagging and ensemble learning methodologies, to enhance prediction accuracy.

Phonetic Analysis for Identifying Native and Non-Native Spanish Speakers April 2023

- Utilized the Phonet library to extract 18 phoneme-level features which were then incorporated into machine learning models such as Logistic Regression, Decision Tree, Random Forest, and Neural Networks for the classification of native and non-native Spanish speech.

Time Series Forecasting on COVID-19 Data November 2022

- Analyzed COVID-19 pandemic data and investigated the performance of 5 models on time series data, including Linear Regression, ARIMA, SARIMA, SARIMAX, and Neural Network, while taking exogenous variables into account.

Happy whale - whale and dolphin Identification April 2022

- Implemented 3 different Neural Network models, namely Alexnet, Resnet50, and VGG16, for image classification (to identify Dolphins and Whales) and compared the models with the help of evaluation factors.

CERTIFICATIONS

- Statistics for Data Science and Business Analysis – Udemy. February 2023
- Event JMP Training for Statistics and Data Visualization – Udemy April 2022
- Deep Learning; Machine Learning – Stanford University – Coursera May 2021

ACHIEVEMENTS

- Best team Award – Awarded for reducing the manual effort by automating the analysis of outdated parts by using Python and was recognized for collaborative personality.
- Super Star Award – Received an award from the Client manager for exceptional automation of data analysis in the Corona Virus Risk Mitigation project, resulting in cost savings of \$24,000 for Cisco Systems Inc.

COMMUNITY INVOLVEMENT

- Event Manager for the AI Student Association at the University of Georgia.
- Volunteered to tutor the local students at The Thomas Lay After-School Program.
- Participated in TCS Clean-up Drive as a part of TCS Fit4life.
- Member of the Quality Management Team, SANKALP – EEE fest; SASTRA Deemed to be University.