Srinivas Barla

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SUMMARY

Master's student in Management Information Systems (MIS) with a Bachelor's in Computer Science and a strong focus on data-driven solutions, predictive modeling, and machine learning. Aspiring to pursue a PhD in Operations and Supply Chain Management, with a research interest in Healthcare Analytics, Resource Optimization and Machine Leaning. Skilled in Python, R, SQL and statistical modeling, with expertise in predictive analytics, machine learning, and large-scale data visualization.

EDUCATION

Texas A&M University - Mays Business School, College Station, TX **May 2025**
Master of Science in Management Information Systems **GPA: 3.7/4.0**
Coursework: Applied Predictive Analytics, Machine Learning, Statistical Analysis, Optimization Methods, Advanced Data Management

Jawaharlal Nehru Technological University, Kakinada, India **Aug 2021**
Bachelor of Technology in Computer Science & Engineering **GPA: 3.9/4.0**
Coursework: Artificial Intelligence, Big Data Analytics, Statistical Methods, Data Visualization, Forecasting and Predictive Modeling
Award: Three-time JNTUK Gold Medalist (Top 1% of 4,200 students)

PROFESSIONAL EXPERIENCE

Associate Engineer - Digital Product Development **Nov 2021 – Jul 2023**
Carrier Global Corporation, Hyderabad Research and Development Center, India

- Implemented data-driven approaches for product development optimization, reducing development cycle time by 18%
- Collaborated with cross-functional teams to improve supply chain visibility through enhanced data analytics dashboards
- Designed and executed A/B tests to optimize product features, increasing customer satisfaction metrics by 22%
- Applied statistical methods to analyze performance data, identifying opportunities for operational efficiency improvements

RESEARCH EXPERIENCE

Sentiment Analysis Using Emojis and Machine Learning **Jul 2022**
Published in Data, Engineering and Applications, Vol.907, Springer nature Singapore, 2022

- Designed and executed original research investigating the role of emojis as contextual indicators in digital communication sentiment analysis
- Developed novel classification algorithms combining linguistic features with emoji contexts, improving predictive accuracy by 24% over baseline models
- Applied multiple machine learning classifiers, including Support Vector Machine (SVM) and Random Forest, yielding 89% classification accuracy across diverse text samples
- Contributed to the emerging field of digital linguistics by demonstrating practical applications of sentiment analysis in social media monitoring

Facies Classification Using Machine Learning Techniques **Nov 2023**
Academic Project, Texas A&M University

- Employed statistical techniques including correlation matrix analysis, factor analysis, and Principal Component Analysis (PCA) to identify key features in geological facies classification
- Developed comparative framework for assessing predictive models (logistic regression, random forest, and gradient boosting), achieving 87.5% classification accuracy
- Presented findings to department faculty, demonstrating applications of machine learning in geological data interpretation

Fitness Tracker - Tracking Barbell Exercises **Feb 2025**
Independent Research Project

- Built a machine learning framework using accelerometer and gyroscope data to classify and evaluate barbell exercise form
- Achieved 91.3% accuracy in movement pattern recognition using ensemble classification methods
- Developed methodology for transforming raw sensor data into actionable feedback, establishing groundwork for further research in human movement analysis

TEACHING EXPERIENCE

Graduate Teaching Assistant - SCMT 340 **Aug 2023 – May 2025**

Texas A&M University, Mays Business School, College Station, TX

- Support learning for 62 students in supply chain management fundamentals with focus on quantitative methods in demand forecasting, inventory optimization, and facility location strategies
- Lead weekly discussion sections covering forecasting methodologies, including time series analysis and causal models
- Develop and grade analytical assignments requiring students to calculate and interpret MAD, MAPE, and MSE metrics
- Created supplemental materials on quantitative models that improved student performance by 15% on technical assessments
- Collaborate with professors to revise course materials based on student performance data analysis

RESEARCH SKILLS & METHODOLOGIES

- **Quantitative Methods** : Regression Analysis, Time Series Forecasting, Statistical Modeling, Hypothesis Testing
- **Programming & Analysis** : Python (NumPy, Pandas, scikit-learn), R, SQL, SPSS
- **Operations Research** : Simulation Modeling, Linear Programming, Optimization Algorithms
- **Data Visualization** : Tableau, Power BI, Matplotlib, Seaborn
- **Research Methods** : Literature Review, Research Design, Survey Development, Data Collection
- **Teaching** : Course Material Development, Student Assessment, Discussion Facilitation
- **Project Management** : Agile/Scrum Methodology, Research Planning, Timeline Management

LEADERSHIP, SERVICE & DISTINCTIONS

International Students & Scholar Services (ISSS) Advisory Board **Sep 2023 – May 2025**

Student Representative

- Advise university leadership on operational challenges (w.r.t CPT, OPT) in international student support services
- Collaborate on process improvement initiatives impacting 6,000+ international students

Texas A&M Bodybuilding Club **Sep 2023 – May 2025**

Vice Chair

- Lead strategic planning for 70-member organization's training programs and competitive initiatives
- Coordinate with university administration on facility optimization and resource allocation strategies

Awards & Honors **Jun 2019 – Aug 2021**

- Three-time **JNTUK Gold Medalist** for academic excellence in Computer Science (2019–2021)
- Represented Andhra Pradesh in the **Mr. India Jr. National Men's Physique Championship** (2019)

ADDITIONAL RESEARCH PROJECTS

SQL Data Warehouse Project **Jan 2025**

Personal Project

- Designed and implemented a comprehensive data warehousing solution for supply chain analytics
- Developed ETL processes and dashboard visualizations for supply chain performance metrics

Predictive Analytics in Real Estate Valuation **Dec 2024**

Course Project, Texas A&M University

- Applied regression and ensemble methods to predict housing prices
- Demonstrated practical applications of feature engineering and model optimization techniques