SRUTHIJHA PAGOLU

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Education

University of Colorado Boulder <div align="right">Aug 2023 – Dec 2025</div>
Master of Science in Data Science – **CGPA: 3.96/4.00**

Mahindra University <div align="right">Aug 2019 – May 2023</div>
Bachelor of Technology in Electrical and Electronics Engineering – **CGPA: 3.54/4.00**
Awards: **Institute Merit Scholarship** (2019–2023) — merit-based, awarded annually.

Technical Skills

Languages: Python, SQL, R
ML Frameworks: scikit-learn, XGBoost, PyTorch, TensorFlow, Keras
Data & Visualization: pandas, NumPy, Tableau, Matplotlib, Seaborn, ggplot
Cloud & Tools: Google Cloud, Microsoft Azure, Git, Excel, MATLAB, Figma

Work Experience

Intech Insurance Surveyors and Loss Assessors Pvt. Ltd <div align="right">Jan 2023 – Jun 2023</div>
Data Analyst Intern – Hyderabad, India

- Increased high risk claim identification by **25%** with a fraud detection model built in **scikit-learn** on historical claims data.
- Automated reporting across **15** branches using **Python, pandas** and **Excel**, reducing manual work by **90%** and saving **20+** staff hours each month.
- Rolled out **Tableau** dashboards for claims and branch KPIs and standardized weekly submissions with a Python and Excel SOP, improving data consistency and audit readiness across 15 branches.

Mahindra University <div align="right">Apr 2022 – May 2023</div>
Recruitment Analytics Coordinator – Hyderabad, India

- Lifted student placements **15%** by analyzing hiring and placement results and focusing outreach on priority employers and peak recruiting windows.
- Built KPI dashboards in **Tableau** and **Excel** that tracked pipeline stages, recruiter engagement and conversion and shortened reporting cycles.
- Ran campus recruiting end to end, coordinating outreach, schedules, interviews and feedback while keeping data clean with validation and deduplication.

Academic Projects

Airline Delay Prediction System <div align="right">Aug 2024 – Dec 2024</div>
- Engineered an end-to-end pipeline on multi-year flight data with temporal and weather features, categorical encoding and five-fold cross-validation.
- Benchmarked six classifiers; **XGBoost** and **Random Forest** led the pack, reaching **97% accuracy** with strong F1 for both on-time and delayed flights.

Real-Time Emotion Recognition from Speech <div align="right">Mar 2024 – May 2024</div>
- Designed a **CNN–LSTM** in TensorFlow/Keras on the RAVDESS dataset, delivering **92% accuracy** across eight emotions with stable, repeatable results.
- Implemented an audio feature-extraction pipeline in Python/librosa: silence trimming, normalization, **MFCCs** and spectrograms and targeted augmentation to improve generalization.

MSR 2024 Mining Challenge <div align="right">Sep 2023 – Dec 2023</div>
- Constructed the analysis dataset from DevGPT JSON using PowerShell, retaining required fields and cleaning inconsistencies for reliable modeling.
- Compared conversation-length predictors; a compact **Keras** classifier achieved **97.42** accuracy, outperforming an **LSTM** baseline at **76.64**, guiding the evaluation approach.

Leadership & Community Engagement

- **Graduate Peer Mentoring Program, CU Boulder:** Mentored new graduate students on academics and career orientation.
- **Spoorthi Foundation NGO:** Volunteered in community development and education initiatives for underprivileged youth.