

SRUTHIJA PAGOLU

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EDUCATION

University of Colorado Boulder

Aug 2023 - Dec 2025

Master of Science in Data Science - **CGPA:** 3.96/4.00

Mahindra University

Jul 2019 - May 2023

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

Programming & ML: Python, SQL, R | scikit-learn, XGBoost, PyTorch, TensorFlow, Keras

Data & Cloud Tools: pandas, NumPy, Tableau, Matplotlib, Seaborn | AWS, GCP, Azure, Git, Excel, MATLAB, Figma

WORK EXPERIENCE

Intech Insurance Surveyors and Loss Assessors Pvt. Ltd

Jan - Jun 2023

Data Science Intern - Hyderabad, India

- Developed a fraud detection model in scikit-learn, boosting high-risk claim identification by 25%.
- Streamlined reporting for 15 branches with Python & Excel, cutting manual work by 90% and saving 20+ staff hours monthly.

Mahindra University

Apr 2022 - May 2023

Recruitment Analytics Coordinator - Hyderabad, India

- Boosted student placements by 15% by analyzing hiring trends with Excel & Tableau, and optimizing outreach to top recruiters during peak windows.
- Designed KPI dashboards (Tableau & Excel) to track recruiter engagement and pipeline conversions, shortening reporting cycles.

Mahindra & Mahindra Ltd.

June - Aug 2022

Data Analyst Intern - Zaheerabad, India

- Engineered data pipelines and dashboards with Python & SQL, improving operational reporting speed and accuracy.
- Analyzed large-scale production datasets to uncover inefficiencies and delivered insights that improved manufacturing process efficiency by optimizing workflows at the plant.

ACADEMIC PROJECTS

Minutes Maker - Video Transcription & Summarization Pipeline

Feb - May 2025

- Built a fully serverless AWS pipeline with S3, Lambda (Dockerized), and SQS, automating video-to-minutes transcription workflows.
- Integrated Whisper for speech-to-text and FLAN-T5 for abstractive summarization, generating professional meeting minutes end-to-end.

Real-Time Emotion Recognition from Speech

Mar - May 2024

- Designed a CNN-LSTM in TensorFlow/Keras achieving 92% accuracy across 8 emotions, with robust and repeatable performance.
- Built an audio preprocessing pipeline with librosa (silence trimming, MFCCs, spectrograms, augmentation) to improve generalization.

MSR 2024 Mining Challenge

Sep - Dec 2023

- 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.