

YASH AMRE

Boulder, Colorado, USA

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EDUCATION

University of Colorado Boulder

Master's in Data Science

Aug 2024 – May 2026

GPA: 3.5/4

Rajiv Gandhi Institute of Technology, Mumbai University, Mumbai, India

Bachelor of Engineering in Computer Science

July 2020 - May 2024

GPA: 3.6/4

TECHNICAL SKILLS

- **Programming Languages:** Python, R, SQL, Swift, HTML, CSS, C.
- **Data Science & ML Tools:** Pandas, NumPy, Scikit-learn, PyTorch, TensorFlow, XGBoost, SVM.
- **NLP & Text Mining:** Word2Vec, TF-IDF, Tokenization, Sentiment Analysis, Topic Modeling.
- **Data Visualization:** Matplotlib, Seaborn, Power BI, Tableau, MS Excel.
- **Statistics & Modeling:** Hypothesis Testing, Clustering (K-Means), Regression, SHAP.
- **Deployment & Tools:** Streamlit, Flask, Git, Excel, Jupyter Notebook.

PROFESSIONAL EXPERIENCE

LexTrack AI, California, USA

Global AI and IT Senior Manager

July 2025 – Present

- Lead the development of **data science infrastructure** powering a marketplace of **500+ AI agents**, resulting in a **60% reduction in deployment latency** and improved model delivery workflows. Also managed a team of 8, driving **data pipeline automation**, **feature store design**, and **model evaluation strategies**.

AI Data Science Intern

May 2025 – June 2025

- Developed and scraped more than **100+ AI Agents** for LexTrack AI's **open-source marketplace**, boosting **prototype speed by 40%**. Also designed a **3D no-code sandbox** for launching AI mini apps, optimizing **data ingestion** and **real-time model testing**, improving deployment speed by **70%**.

Faclon Labs, Mumbai, India

Data Analyst Intern

June 2023 - Nov 2023

- Identified **30+ data discrepancies** and ensured **95% data integrity** through **White Box** and **Black Box Testing** for clients like Godrej and Aditya Birla.
- Collaborated on predictive performance analysis for **Adani Electricity**, optimizing ML-ready datasets and improving reporting accuracy by **20%**.

ACADEMIC PROJECTS

AVemotion: A Multimodal Transformer for Real-Time Audio-Visual Emotion Recognition April 2025 – June 2025

- Developed a **Transformer-based multimodal system** that fuses **speech (MFCC features)** and **facial expressions (CNN-based)** to classify emotions across **8 categories** in real time.
- Built with **PyTorch**, **Librosa**, and **Torchvision** & deployed via **Streamlit Cloud**, with **SHAP explainability**, achieving **87% accuracy** on **RAVDESS dataset** and enabling **live webcam demo with emotion trend graphs**.

Exploring Social Media Reactions to Disaster using Text-Mining and Sentiment Analysis Aug 2024 – Nov 2024

- Built a sentiment analysis model using **Python** and **NLP techniques** like **tokenization**, **lemmatization**, **TF-IDF** to classify emotions like **joy**, **fear**, **sadness** across **30K+** texts from news, YouTube, Twitter.
- Applied **K-Means** and **NRClex** to uncover **3 key thematic clusters (support requests, event descriptions, emotional responses)** boosting topic identification by **30%** & aiding disaster response insights.

Duplicate Questions Pair Detection using Machine Learning

Aug 2023 – April 2024

- Developed a **web-based platform** to detect and consolidate **duplicate questions** with **82% accuracy**, processing **10,000+ question pairs** from the **Quora dataset** using **NLP techniques** like **Bag of Words (BoW)** and **Word2Vec** to convert text into vector form for effective comparison.
- Achieved a **30% reduction in processing time** by optimizing **machine learning models** such as **Random Forest**, **Support Vector Machine (SVM)**, and **XGBoost**.

CERTIFICATION

Data Science Course: Complete Data Science Bootcamp by Udemy