

PAVAN MANNEM

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EDUCATION

Texas A&M University – College Station, TX
Bachelor of Science in Chemical Engineering
Minors: Computer Science, Mathematics
GPA: 3.5

Dec 2020

EXPERIENCE

Synthesis Partners – Austin, TX

Apr 2022 - Present

Data Scientist

- Designed robust web scrapers to extract open data (reddit, twitter, imdb, etc)
- Leveraged NLP techniques such as cosine similarity, topic modeling, and text classification to extract actionable insights for brands and media clients
- Constructed network maps for audience segmentation which enabled strategic targeting and message personalization for client's consumers
- Optimized the efficiency of data pipelines and managed the backend infrastructure for client-facing product

Adhoc Research – Dallas, TX

Apr 2021 - Apr 2022

Applied AI/ML Engineer

- Successfully migrated entire GIS data pipeline from on-prem server to Databricks cloud instances, resulting in 40% reduction in processing time
- Developed Airflow DAGs to fully automate the data pipeline
- Deployed a real-time analytics dashboard to closely monitor Databricks VM usage
- Applied multivariate linear regression to time series data to accurately predict cost savings

Endorsify – Remote

Jun 2020 – Sep 2020

Data Science Intern

- Web scraped Instagram JSON data on followers of influencers to build training data for influencer pricing model
- Implemented multithreading for web scraping to improve processing speed by 25%
- Predicted age and sex of followers using OpenCV convolutional neural networks (CNNs) with profile pictures

PROJECTS

BBC NEWS NLP ANALYSIS

- Built an algorithm to read 2200+ articles and identify which articles were written about G20 countries
- Utilized LDA for topic modeling and TF-IDF for identifying keywords in each category
- Trained random forest model to classify articles (politics, business, sports, etc.) with 96% accuracy

SKILLS & ABILITIES

- Programming Languages: Python, MATLAB, C++
- Database: SQL, BigQuery, MongoDB
- Cloud: GCS, Azure, Elastic Search, Airflow
- Dataviz: Tableau