Diksha Phuloria

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SUMMARY

Data Science graduate student at Rutgers University with over 2 years of industry experience and solid academic training in data analysis, machine learning, SQL, and application development driven by analytics. Experienced in building end-to-end data solutions, predictive models, and interactive dashboards.

EDUCATION

Rutgers University, New Brunswick, NJ, USA **2024 - E. May 2026**
Master of Science, Data Science | GPA: 3.83/4

Manipal University Jaipur, Rajasthan, India **2017- July 2021**
Bachelor of Technology in Information Technology | GPA: 8.07/10

PROFESSIONAL EXPERIENCE

Accenture, Gurugram, India
Analyst, Custom Software Engineering **May 2021 - July 2023**

- Supported enterprise analytics platforms like Tableau and Cognos, which improved reporting reliability and performance.
- Analyzed and resolved over 100 client-reported issues using ServiceNow by debugging data pipelines and application workflows.
- Monitored issue lifecycle metrics to ensure compliance with service level agreements and improve client satisfaction.
- Performed system maintenance and upgrades, helping to improve platform stability.

SKILLS

Languages & Querying: Python, SQL, R
Data Analysis & Visualization: Pandas, Exploratory Data Analysis (EDA), Data Cleaning, Feature Engineering
Databases & Platforms: ServiceNow, InstallShield, Visual Studio, Streamlit, GIT, PostgreSQL, MySQL, Snowflake
Analytics Concepts: Predictive Modeling, Data Wrangling, Causal Inference, Data Visualization, ETL, LLM

ACADEMIC PROJECTS

Carbon Emissions Tracking in Language Model Fine-Tuning for Question Answering Task | Python, Hugging Face, CodeCarbon | [To Repo]

- Evaluated performance against carbon emissions trade-offs for transformer models on SQuAD v2.0 QA tasks.
- Fine-tuned DistilBERT, BERT, GPT, and RoBERTa using full fine-tuning, LoRA, and few-shot learning.
- Integrated CodeCarbon to track GPU, CPU, and RAM energy usage along with CO_2 emissions during training.
- Achieved about 95% of full fine-tuning performance with 12-24% lower emissions using LoRA.
- Reported efficiency metrics including F1 score per kilogram of CO_2, emphasizing sustainable machine learning practices.

Extracting Financial Sentiment Features with Sparse Autoencoders | [To Repo]

- Applied Sparse Autoencoders (SAEs) to GPT-2 internal activations to pull out interpretable financial sentiment features.
- Tackled polysemanticity and superposition by enforcing sparsity constraints on latent representations.
- Extracted and analyzed residual stream activations from GPT-2 layer 9 using the FinancialPhraseBank dataset.
- Evaluated feature interpretability using firing rate analysis, top-activating tokens, and specific financial scoring.
- Demonstrated the feasibility of extracting domain-relevant, interpretable features from black-box language models.

Anime & Manga Recommendation and Community Platform | Python, Streamlit, PostgreSQL, SQLAlchemy | [To Repo]

- Created a web application driven by data for browsing, reviewing, and recommending anime and manga content.
- Designed a relational PostgreSQL schema for users, content, reviews, and activity tracking with optimized queries.
- Implemented search, filtering, sorting, and pagination features to boost performance and usability.
- Developed a rule-based shuffle recommender and an OpenAI-powered natural language search assistant that transforms user queries into structured SQL filters for personalized recommendations.

PROFESSIONAL CERTIFICATES

snowflake
SnowPro Core Certification (Aug 2025 - Aug 2027) - https://achieve.snowflake.com/f93aa466-1e48-4236-a287-fbfb880b7dd8#acc.TD4Uz15Z