

Vinay Kumar Revanuru

 github.com/vinayrevanuru1  [linkedin.com/vinayrevanuru](https://www.linkedin.com/in/vinayrevanuru)  vinayrevanuru@gmail.com  214-516-9118

Education

Georgia State University

August 2022 - July 2024

Master of Data Science and Analytics (Specialization in Machine Learning)

GPA 4.0/4.0

Indian Institute of Technology, Guwahati

September 2017 - October 2021

Bachelor of Electrical and Electronics Engineering

GPA 3.15/4

Experience

Country Fried Creative | Data Science Intern

May 2024 - Present

- Developed OpenAI, Llama based Knowledge graph chatbots for internal Knowledge base
- Streamlined and developed restaurant review analysis API and created open source Interactive Dashboard
- Created keywords for SEO and SEM optimizations that increased web traffic by 23%.
- Funneled data from multiple sources to optimize Ad Strategy based on Return on Ad Spend (ROAS).

Institute for Insights,GSU| Data Scientist

Aug 2022 - July 2024

- Developed an efficient customer support system using the Open Source Llama platform, reducing response time to user complaints and reviews by 30%, reducing resolution times.
- Developed an RAG based Answering agent for answering 10k documents of financial institutions using Langchain.
- Researched on GPT-powered AI impact on platforms like Stack Exchange, assessing enhanced automated responses, user engagement, and content quality over Traditional Q&A Platforms.
- Leveraged Wellstar data of 80,000 rows to extract insights through text analytics and Visualized KPIs in Tableau.
- Collaborated with the Entrepreneurship and Innovation Institute at GSU to develop and conduct an analysis on the correlation between academic performance indicators and the diverse performance metrics of hospitals.

Indian Institute of Technology,Guwahati| Research Assistant

July 2021 -April 2022

- Implemented ARIMA and LSTM models on electrical load data to enhance the prediction accuracy of electrical load demand within a substation region, achieving remarkable accuracies of 94%.
- Developed a module focused on automating mask detection to facilitate tracking during the COVID-19 pandemic, ensuring adherence to safety protocols.

Skills

Key Concepts:Data Analysis, EDA, Modelling,Time Series, LLM Modelling, PEFT, RAG, ETL

Python Libraries:NumPy, Pandas, Matplotlib, Tensorflow, Pytorch, Scikit-learn, PyTorch, Hugging Face, LangSmith

Statistical Tools and Visualizations: R, Matlab, Bayesian Modelling , AB Testing, Causal Inference

Database: MySQL, SQLite, MongoDB, PostgreSQL, Google Big Query

Big Data/ Containerization Tools: Hadoop, Spark, Pyspark, Scala, Anaconda , Docker

Data Visualization Tools: Tableau, PowerBI, Excel, Plotly, Dash, Domo

Projects

Implementation of 3D Gaussian Splatting|PyTorch, Torch-Distributed, W&B, Conda, CUDA Toolkit, Docker

June 2024

- Expanded the scope of the original implementation to accommodate larger spaces and outdoor environments, increasing the spatial coverage by over 10 times.
- Developed a distributed PyTorch version to enhance training speed and scalability across multi-GPU systems.

Brand Image Analysis | Python, TensorFlow, Git, Power BI, Google Cloud Vision API, AutoML, YoloV7

May 2024

- Trained object detection models on more than 10,000 images using YOLO , ResNet and Google Vision Models.
- Unearthed correlations between brand logo presence and consumer engagement, exhibiting variations across specific brand categories using causal inferences.

Abstractive Text Summarization | NLP, Deep Learning, Pytorch, Tensorflow

December 2023

- Performed cutting-edge abstractive text summarization on an extensive dataset of over 200,000 news articles
- Achieved remarkable ROUGE-L scores surpassing 30%, showcasing exceptional proficiency in crafting concise summaries.

Hate Speech Classification | Python,NLP,Tableau

May 2023

- Developed an API capable of discerning harmfulness of textual content and subsequently categorizing into six distinct classes, By training over 300,000 samples of labeled Text.
- Implemented Support Vector Machine , Decision Trees, achieved 95% recall rate with XGBoost and Extra Trees.