George T.

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Objective

M.Sc. Statistics graduate with a solid foundation in statistical inference, machine learning, and deep learning. Proficient in applying advanced statistical techniques and AI models to solve real-world problems through academic and internship projects. Experienced with neural network architectures such as CNNs, LSTMs, and Transformers, and familiar with Generative AI concepts including Retrieval-Augmented Generation (RAG), prompt engineering, and foundational LLM usage. Eager to contribute to data-driven innovation in roles related to data science, AI system development, or statistical modeling by integrating analytical rigor with modern AI practices.

Education

M.Sc. Statistics, Loyola College, Chennai 2023–2025
CGPA: 7.5

B.Sc. Statistics, Loyola College, Chennai 2020–2023
CGPA: 7.5

Internships

AI Analyst Intern, **Dream to Reality (D2R) AI Labs, Adyar** April 2024 – June 2024
Collaborated on automating distributor–salesperson order workflows using Azure Function Apps and Blob Storage, processing over 1,000 email records. Applied OCR (Pytesseract), Azure Form Recognizer, and data preprocessing to extract structured product information. Enhanced GPT-4-powered product query interpretation using ElasticsearchDB for vector-based retrieval. Contributed to the full product recommendation system, including code updates, logic debugging, and process documentation.

Data Science Intern, **Corizo Edutech** November 2023 – February 2024
Performed unsupervised sentiment analysis on unlabeled customer feedback using VADER and TextBlob for polarity classification. Explored transformer-based models (e.g., DistilBERT) for contextual sentiment extraction and benchmarked them against traditional lexicon-based methods. Built and evaluated sentiment pipelines for text classification, integrating pre-trained embeddings and attention-based models for enhanced interpretability.

Research Intern, **Indian Council of Medical Research (ICMR), Chetpet** December 2022 – January 2023
Assisted in digitizing and managing clinical records for infectious disease studies, ensuring data integrity and compliance with research standards. Gained exposure to biomedical research methodologies, particularly in epidemiology and patient-level data tracking. Observed real-world applications of biostatistics in healthcare and developed an interest in public health data systems.

Projects

Symptom-Based Disease Prediction with RAG Nov 2024 – Feb 2025
Developed a Retrieval-Augmented Generation (RAG) based AI system for symptom-based disease prediction using BioBERT for symptom embedding. Employed GPT-Neo 1.3B from Hugging Face and FAISS for vector storage and efficient document retrieval. Integrated the Wikipedia API to provide detailed disease descriptions. The system accepts user-input symptoms, predicts possible diseases, retrieves relevant disease information from the FAISS index, and uses GPT-Neo to generate personalized precautions and remedies. Deployed via Flask with ngrok tunneling.

Hybrid Time Series Modeling for Rainfall Forecasting Apr 2024 – Jun 2024
Forecasted rainfall using SARIMAX, Facebook Prophet, and LSTM models on meteorological data from DMS (Teynampet). Conducted stationarity checks using the Augmented Dickey-Fuller test and applied differencing for SARIMAX and Prophet models. Evaluated model performance using RMSE (2.1 mm), MAE (1.4 mm), and MAPE (5.6%). LSTM outperformed others by effectively capturing nonlinear rainfall patterns.

Technical Skills

Languages: Python, R, SQL, MATLAB, SAS
Tools: TensorFlow, Flask, Power BI, SPSS

Certifications

- **Artificial Intelligence & Data Science** – Loyola Institute of Vocational Education (2024)
- **Deep Learning** – NPTEL (2024)

Additional Experience

- **Paper Presentation: International Conference for Statistics and Data Analytics (ICSDA)**, Loyola College (2025)
- **Workshops:** Biostatistics (Pfizer, 2023), Power BI (2024)
- **Volunteering:** Organized Department Fest (2023)
- **Community Engagement:** Participated in Rural Camp (2023) and Urban Camp (2024)
- **Leadership:** Served as School People Leader, St. Mary's School (2019–2020)
- **Sports Achievements:** Awarded in Badminton at St.Mary's School; Runner-up in Ball Badminton,Loyola College