Asish Karthikeya Gogineni

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Education

Georgia State University — Atlanta, GA

*Masters of Science in Computer Science - GPA: **3.77**/4.0* — *Aug. 2024 – Dec 2025 (Expected)*

Experience

Graduate Research Assistant — Aug 2024 – Present

Georgia State University — *Atlanta, GA*

- Designed, and Fine-tuned ML models (SVM, Random Forest, LSTM), achieving an 8% increase in accuracy.
- Applied advanced techniques, including transfer learning and hyperparameter tuning, boosting accuracy by 19%.
- Integrated LLMs for NLP tasks, improving insights and deploying fine-tuned models in real-world customer feedback analysis.

Data Science Intern — Nov 2023 – Feb 2024

Deakin University — *Victoria, Aus - Remote*

- Implemented YOLOV5 for real-time image detection with an accuracy of 88% using Azure Databricks.
- Utilized Azure ML for training and deploying models, ensuring seamless integration with data pipelines.
- Developed and deployed SVM models to classify customer email threats, reducing false positives by 15%.

Research Intern — Aug 2022 – Oct 2023

SRM Univeristy [GoldMedalist]

- **Sentiment Analysis with DL and Transformers:** Conducted sentiment analysis using LSTM, CNN, and Transformers, deploying models with Azure ML and DevOps.
- **LLM'S:** Conducted sentiment analysis using transformers, fine-tuning models like BERT and GPT.
- **MLOps Pipeline Design:** Designed MLOps pipelines, enhancing model reliability and deployment workflows.
- Created robust data models in PostgreSQL and MongoDB for AI-driven analysis.

RESEARCH PUBLICATIONS & PROJECTS

Comparative Study on Sentiment Analysis Using Machine Learning Techniques | Q1 Journal

- Applied NLP tools and ML models, including XGBoost and Logistic Regression, to classify unstructured text.
- Achieved superior performance with XGBoost, demonstrating an F1 score of 83%.

A Hybrid Deep Learning Framework for Efficient Sentiment Analysis | Q3 Journal

- Developed a hybrid deep learning framework using LSTM, GRU, CNN, and their combinations for Prediction.
- Integrated BOW and TF-IDF to enhance accuracy. Published in the International Journal of Advanced Computer Science and Applications (IJACSA).

Colon Cancer Diagnosis | *Python, Flask, React, Git* — Q2 Journal

- Achieved **99.6% accuracy** by combining EfficientNet for feature extraction and SVM for classification.
- Implemented 6 transfer learning techniques and 6 ML models and compared the results and also implemented Kfold cross validation for better prediction.
- Deployed using Flask a web dashboard for real-time predictions.

Technical Skills

Languages: Python, R, SQL, Scala, C++
Machine Learning: PyTorch, TensorFlow, Keras, Tableau, CV, NLP, PowerBI, LLMs
Tools: Git, PowerShell, Shell Scripting, MapReduce, SQL, NoSQL, Apache Spark, Hive, Hadoop
AI Applications: Gen AI, MLOps Accelerators, NLP, Text Mining

Achievements & Certifications

- **Awards:** First Runner-Up in ML Hackathon, **Received Gold Medal** and Special Mention on Research
- **Certifications:** AI & Automation in Excel, ML With Big Data – UCSD, Big Data Modeling– UCSD