SATYA PRADEEP CHANDRA GANDI

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PROFESSIONAL SUMMARY

- Proficient in designing and implementing machine learning models, including regression, classification, clustering, and neural networks. Demonstrated experience in applying these techniques to diverse domains such as Computer Vision and Natural Language Processing (NLP).
- Skilled in data preprocessing, feature engineering, and hyperparameter tuning to optimize model performance. Experienced in model evaluation to ensure robustness and accuracy, utilizing various metrics and validation techniques.
- Familiar with large-scale data processing and distributed computing using tools such as Azure Machine Learning and Databricks. Competent in leveraging Apache Spark and PySpark for efficient data manipulation and analysis, enhancing the scalability and speed of data workflows. Passionate about cloud infrastructure, automation, and leveraging Azure for ML deployments
- Knowledgeable in programming languages including Python, C++, C, Java, and Prolog, enabling the development of scalable and efficient machine learning applications, academically experienced with Java, having worked on projects involving core Java.
- Knowledgeable in web technologies such as HTML5, CSS3, JavaScript, and PHP. Skilled in SQL for database management and Apache Spark for large-scale data processing, enabling efficient data storage and retrieval.
- Passionate about staying updated with the latest advancements in machine learning and data science. Continuously seeking to enhance skills and knowledge through self-learning, experimentation, and participation in relevant professional communities.

TECHNICAL SKILLS

Programming Languages	Python (NumPy, Scikit-learn, Pandas, OpenCV, TensorFlow, Keras, Mllib), Java (Core Java - OOP, Collections, Multithreading, File I/O, Exception Handling), C, C++
Cloud Platforms	Microsoft Azure (Fundamentals), Azure Machine Learning
Web Technologies	HTML5, CSS3, JavaScript, PHP
Others	SQL, Apache Spark (Spark SQL, PySpark)

ACADEMIC PROJECTS

COVID-19 detection from chest X-rays

- Implemented a machine learning model using transfer learning on different pre-trained models to train on a dataset containing chest X-rays of patients diagnosed with COVID-19 and Pneumonia to detect potential COVID-19 on new chest X-rays achieving good accuracy.

Cheque detection

- Developed a program to detect cheques from images using different image manipulation techniques provided by OpenCV library and extracting text on the cheque using an OCR tool pytesseract with decent accuracy.

Counter Speech generator for hate speech

- Developed a counter speech generator against hate speech using T5 model and achieved a cosine similarity above 0.75 for 88.2% on test data.

Dish Recommender Chatbot

- Created a chatbot that recommends dishes using GPT-3 to extract customer preferences from the conversation and Answer Set Programming to make decisions based on the preferences.

Directory analysis Chatbot

- Developed a chatbot that can answer queries about the files and subfolders in a directory using zero shot learning on DeepSeek R2 model.

Automated Invoice Matching

- Engineered an accounts receivable automation system using Python and XGBoost to predict invoice-payment relevance scores, streamlining the reconciliation process. Developed the model on a large-scale synthetic dataset, applying advanced feature engineering to achieve high-accuracy intelligent matching.

EDUCATION

The University of Texas at Dallas, TX, USA (Jan 2022 – May 2023)
Master of Science, Computer Science CGPA: 3.79/4.0

Gitam Deemed University, Visakhapatnam, India (Aug 2017 - May 2021)
B. TECH, Computer Science and Engineering CGPA: 3.37/4.0