Dominic Parosh Yamarthi

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EDUCATION

State University of New York at Buffalo ***Buffalo, NY, USA, [Feb 2023–Present]***
Master of Science in Engineering Science – Data Science
Coursework: Numerical Mathematics, Introduction to Probability, Statistical Data Mining (Supervised Learning and Unsupervised Learning), Introduction to Python, Introduction to Machine Learning, Introduction to Computer Vision and Image Processing, Data Intensive Computing and Data Model Query Language.

Gayatri Vidya Parishad College of Engineering (A) ***Visakhapatnam, India [2014 - 2018]***
Bachelor of Technology in Computer Science & Engineering
Coursework: Data Structures, AI, Design and Analysis of Algorithms, OS, Computer Architecture, Software Engineering, Digital Image Processing

SKILLS

Programming Languages: Python, Java, C++, C, JavaScript (Node.js), R, MATLAB, Ruby, Swift.
Web Technologies & Databases: HTML, CSS, MySQL, MongoDB, SQLite, SQL, Postgres.
Operating Systems: Linux, Windows, MacOS.
Software and Tools: Tableau, Power BI, VS Code, Jupyter Notebook, RStudio, Anaconda, Git, JIRA, Bitbucket, Postman, Rocket Lane, Microsoft Office, Docker, Kubernetes, Tensorflow, pytorch, keras, scikit-lern, XGBoost
Others: Machine Learning, Artificial Intelligence, Data Science, Data Analysis, Deep Learning, Reinforcement Learning. Natural Language Processing, Computer Vision, Apache Spark, Hadoop, Map Reduce, Spring Boot, Microservices.

PROFESSIONAL EXPERIENCE

Tech n Vision | Hyderabad, India, *Software Engineer* ***Aug 2019 – Dec 2022***

- Worked with nearly 20 clients aiding them to process financial documents using natural language processing.
- Successfully developed a code to clean, extract and analyse details from Bank Statements of Bank of Santander using Information Retrieval and Natural Language Processing.
- Using Beautiful soup and pytorch, I developed code to detect and extract multiple languages on the given financial forms using Computer Vision and Natural Language Processing.
- Parallely worked in a sister company of Tech n Vision called Solix, using Java by proving a data storage and analysis solutions for all the clients, used apache spark and spring boot frameworks.

PROJECTS

- **Predicting Nationwide traffic Accidents in US:** Road accidents pose a grave threat to public safety. This project seeks to analyze a comprehensive US traffic dataset, uncovering patterns to inform evidence-based policies and interventions aimed at mitigating risks and enhancing road safety nationwide.
  Python, Data Analysis, Machine Learning Models, Streamlit, Jupyter Notebook
- **Estimation of Vehicle Weight for Structural Load Analysis:** Implemented cutting-edge computer vision algorithms for real-time vehicle detection, classification, and weight estimation, seamlessly integrated into traditional tracking systems to display live video feed with vehicle class, count, total weight, and alerts.
  Python, Computer Vision, YOLO, Jupyter Notebook, Google Collab
- **Layoff Prediction:** Global layoff trends analysis post-COVID, with a U.S. focus, leveraging statistical insights and developing a predictive model for layoffs over the next 3 years across states using data from the 'Warn Database'.
  Python, Data Analysis, Machine Learning Models, Time Series, HTML, CSS, JavaScript, Jupyter Notebook
- **Fashion MNIST:** Clothing image classification for fashion related tasks, a CNN model is built which achieves overall accuracy of 93%.
  Python, Image Preprocessing, Neural Network, Jupyter Notebook
- **Gender Prediction:** With an accuracy rate of 72%, the objective entails predicting the gender (Male/Female) from provided sonogram images.
  Python, Image Preprocessing, Neural Network, Jupyter Notebook
- **Word-Count:** Designed an algorithm using MapReduce and Hadoop to count the total words in different books of size 100 TB.
  Java, Eclipse, Hadoop, MapReduce, Big Data
- **Land Mine Classification:** Detection of mines buried in the ground is very important in terms of safety of life and property.
  R, RStudio, Unsupervised Learning Models, Supervised Learning Models, Classification Models
- **Air quality Prediction:** Predicting air quality of a certain region over the course of time.
  R, RStudio, Unsupervised Learning Models, Supervised Learning Models, Classification Models

AWARDS

- Stood second in a startup pitching competition hosted by Blackstone in SUNY Buffalo and won a prize of 500$.