Durga Venkata Phanindra Kumar Mulamreddy

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Education

University of Maryland Baltimore County • Baltimore • MD *August 2022 – May 2023*
Master of Professional Studies: Data Science ***GPA: 3.93***
Courses: Data Management, Advanced Data Analytics, Big data Processing, Data Structures and Algorithms, Practical Deep Learning, NLP, Mathematics for Machine Learning.

Jawaharlal Nehru Technical University Kakinada - Kakinada, India *July 2017 – June 2021*
Bachelor of Technology: Mechanical Engineering ***GPA: 9.03/10.00***
Courses: Programming with C, Production Planning and Control, Statistics, Robotics, Engineering Management.

Skills

Category	Skills
Programming Languages	Python, R, SQL
Big Data Technologies	BigQuery, Apache Spark, PySpark, Hadoop, MongoDB, Kafka.
Data Analysis & Modeling	Regression Analysis, Time Series Analysis, Multivariate Analysis, Advanced Data Analystics, Predictive Modeling.
Data Visualization	Tableau, Power BI.
Database Management	SQL, NoSQL Databases, Oracle, RDBMS.
Machine Learning	TensorFlow, PyTorch, Keras, Computer Vision.
Data Engineering	Data Warehousing, ETL/ELT Development, Data Cleaning, Data Migration, Data Mining.
Cloud Platforms, Tools	AWS Solutions Architect, Azure Data Bricks. Docker, Hive, Jupyter Notebook

Work History

Graduate Assistant
University of Maryland Baltimore County, *09/2023 – 12/2023*
- Architected and sustained robust SQL, NoSQL databases, guaranteeing flawless data transformation and integration, which led to a 30% up in data retrieval speed, 20% reduction in downtime.
- Developed 3+ Python scripts for data analysis, improving processing efficiency by 10% and contributing to 3% up in model accuracy.
- Led data-driven initiatives by collaborating with cross-functional teams, presenting insights that increased operational efficiency by 20% and reduced project completion time by 15%.

Data Engineer, *05/2021 to 06/2022*
Cognizant Technology Solutions, CTS
- Developed visualizations using Power BI to make complex shortage analyses accessible to stakeholders.
- Engineered comprehensive Power BI visualizations to clearly convey complex data trends, enhancing stakeholder understanding by 25% and facilitating a 10% uptick in project approval rates.
- Maintained 98% data pipeline stability, reducing discrepancies by 20% over one year.

Data Analyst Intern, *05/2020 to 04/2021*
IRIX Technologies Pvt Ltd, Hyderabad, India
- Generated detailed studies on potential third-party data handling solutions, verifying compliance with internal needs and stakeholder requirements and utilized Git for the collaborative development.
- Optimized data workflows ensured data quality and integrity and implemented solutions for real-time data processing.

Academic Projects

Tesla Stock Price Prediction Using Kafka and MLlib | UMBC (Spring 2024)
- Implemented a real-time data streaming and ML system for Tesla stock price precition using Apache Kafka and Spark MLlib.
- Set up Kafka on AWS EC2 for streaming data and utilized S3 for data management.
- Developed a time-series prediction model to forecast future stock prices. Evaluated model performance and discussed results.

Plant Disease Classification | UMBC (Dec 2023)
- Designed an efficient plant disease classification system using RNN and CNN.
- Integrated temporal dependencies from RNNs and spatial features from CNNs for accurate disease identification in plant images.
- Demonstrates expertise in deep learning, image processing, and innovative neural network applications for practical solutions.

Sentiment Analysis of Movie Reviews | UMBC (Spring 2023)
- Implemented a Sentiment Analysis using Semi supervised learning, achieving a 18% boost in classification accuracy for 50,000+ unlabeled text data with showcasing the key patterns from the EDA.
- Developed the best approach to self-train the classifier which resulted in an overall increase of 21% efficiency for the sophisticated unlabeled data.

Prediction of flight delay analysis | UMBC (Spring 2023)
- Developed predictive algorithms by combining historical flight data and real time weather reports: enchanced delay forecasting accuracy to 90%, reducing the wait times by an average of 13minutes.
- Employed Lasso, LightGBM, Random Forest, XGBoost algorithms using Big data tools (Apache Spark, Hadoop, MongoDB)to achieve robust predictive performance. Conducted thorough hyperparameter tuning to optimize model performance and enchaned predictive accuracy to 84%.