Yeshwanth Govindu

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LinkedIn | GitHub | Portfolio

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EDUCATION

University of North Texas *Denton, TX*

Master of Science, Computer Science ***Aug, 2023 – Present***

Coursework: *Software Engineering, Data Structures and Algorithms, Database Systems, Artificial Intelligence, Machine Learning, Big Data and Data Science, Natural Language Processing, Information Retrieval.*

TECHNICAL SKILLS

- ***Programming Languages****: C, Python(NumPy, Pandas, PyTorch, TensorFlow), SQL*
- ***Databases:*** *MySQL, PostgreSQL, Oracle.*
- ***Frameworks:*** *Hadoop Ecosystem(HDFS, MapReduce, Hive), Spark(SparkSQL, PySpark, Spark Streaming, MLlib), Apache Kafka*
- ***Monitoring & logging Tools:*** *AWS Cloudwatch, Splunk*
- ***CI/CD :*** *Jenkins, GitLab*
- ***Containerization, Orchestration:*** *Docker, Kubernetes*
- ***Software Development Practices:*** *Agile Scrum methodologies, JIRA*
- *Good understanding of* ***Data Structures and Algorithms***
- *AWS CERTIFIED SOLUTIONS ARCHITECT*

WORK EXPERIENCE

TATA ELXSI *Bangalore, India*

Software Engineer (2 years) ***Aug, 2021 – July, 2023***

- *Developed and deployed scalable cloud solutions, utilizing Apache Spark and Kafka to process large scale dat streams and extract valuable insights, leading to 30% reduction in processing time.*
- *Collaborated with cross-functional teams to design and implement high-quality platform features, achieving a 95% code review approval rate and ensuring the stability of core financial products.*
- *Optimized SQL queries and managed relational databases to improve system performance and data retrieval efficiency. Designed and implemented object-oriented solutions to enhance the stability and scalability of applications.*
- *Built and integrated REST APIs to streamline communication between front-end interfaces and backend services, ensuring secure and efficient data access.*
- *Participated in code reviews, version control (Git), and unit testing to ensure clean code practices and maintainable software.*
- *Contributed to end-to-end product lifecycle management, including development, testing, and deployment of web-based applications.*

CERTIFICATIONS/ TRAINING

DATA STRUCTURES and ALGORITHMS *(GOOGLE TECH DEV GUIDE): With this self-training, I familiarized myself with common DSA like Lists, Dictionaries, Stacks, Queues, Linked Lists, Hash tables, Big-O Analysis, Searching, Sorting.*

AWS CERTIFIED SOLUTIONS ARCHITECT *(AWS): I gained adequate knowledge and skills to provide solutions to complex problems, optimizing security, cost and performance and automating manual processes. Validity – (Jan'24 – Jan'27).*

ACADEMIC PROJECTS/ OPEN-SOURCE CONTRIBUTIONS/ COMPETITIONS

E-Commerce Customer Churn Prediction (Big Data and Data Science-Machine Learning):

Developed a system to predict customer churn for distributed big data processing and machine learning models for customer segmentation and churn prediction. Implemented machine learning models using Spark MLlib for real-time customer segmentation, improving prediction accuracy by 15% for high-churn customers. This project demonstrates the ability to handle large datasets, filtering, performing clustered data processing, integrate machine learning algorithms, and optimize processing for real-time analysis.

Tech Stack: *Hadoop(HDFS, MapReduce, Hive), AWS(EMR, Glue, S3), Clustering, Regression, Spark.*

HOUSE PRICES: ADVANCED REGRESSION TECHNIQUES (MACHINE LEARNING – KAGGLE COMPETITION):

This competition involved predicting the sales prices for homes based on various features. Utilizing advanced regression techniques, I developed models to analyze and predict the house prices accurately. My models performed exceptionally well, ranking in the top 10% on the global leaderboard. This showcases my proficiency in data analysis, feature engineering, and model evaluation.

Tech Stack: *Python, Pandas, NumPy, Scikit-Learn, XGBoost, Lasso, Neural Networks, Matplotlib, Seaborn.*