Ajay Kumar Seelam

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EDUCATION

University of North Texas — **Denton, Texas, USA**
Masters in Computer Science — *Jan 2023 - Dec 2024*
Nalla Narasimha Reddy Education Society's Group of Institutions — **India**
Bachelors in Computer Science — *Aug 2017 - May 2021*

TECHNICAL SKILLS

Programming Languages: Python, SQL,Java, HTML, CSS, JavaScript
Big Data Technologies: Hadoop, Hive, Apache Spark, Apache Kafka, NoSQL Database - Cassandra
ETL Tools: Informatica, ODI, SSIS, SAP Data Services, Apache Airflow, Oracle Data Integrator, DBT
Databases: MySQL,PostgreSQL, Neo4j, Oracle Database
Microsoft certified Azure Data Engineer Azure Data Factory(ADF),Azure Databricks,Azure Synapse Analytics, Data Lake Storage,Azure Databricks,Cosmos DB,Azure Stream Analytics, Azure Event Hubs ,Power BI with Azure Integration
Libraries and Frameworks: Pandas, NumPy, Sklearn, PyTorch, TensorFlow, Keras, LangChain, Flask, Streamlit
Tools: Tableau, Power BI, AWS, Azure,Oracle cloud, GCP, Jupyter, Visual Studio Code, Docker, Excel
Architectures: Transformers, Large Language Models, RAG, GraphRAG, API Development, custom GPT's, Parser Generators

WORK EXPERIENCE

Data Analyst
University of North Texas - Transportation Services, USA — *Aug 2023 – Dec 2024*

- Optimized operational efficiency by implementing data-driven insights, resulting in a 10% reduction in average travel time and a 15% increase in route efficiency for customers.
- Developed interactive dashboards in Power BI, improving stakeholder understanding of parking citation and violation trends, resulting in a 40% increase in data-driven decision-making.
- Designed and implemented fraud detection algorithms in Python, analyzing 1M+ parking-related transaction records, which enhanced fraudulent activity identification accuracy by 35%, strengthening operational security.

Software Engineer
Stellantis, India — *Oct 2021 – Dec 2022*

- Created a automation script using Python that processes and analyzes 200+ Excel sheets, making data retrieval 50% faster for the team in agile environment. Upgraded system functionalities to meet the requirements.
- Streamlined data collection and processing tasks using Python, reducing manual errors and increasing efficiency by 30%.
- Led the automation of ETL pipelines utilizing Python for large datasets exceeding 1M records; streamlined processing times by over 35%, improving overall efficiency within ongoing data science operations across teams.
- Leveraged advanced machine learning techniques to optimize performance metrics for supply chain operations; reduced delivery delays by creating accurate forecasts based on demand trends over the past five years.

Data Engineer Intern
Auto-smart.fin , India — *Jun 2019– Jul 2021*

- Orchestrated ETL pipelines using Azure Data Factory, Databricks, and Synapse, reducing data processing time by 35%.
- Built CI/CD pipelines with Jenkins, eliminating manual interventions and ensuring seamless deployments across projects.
- Crafted reusable frameworks using Spark and Scala, reducing development efforts by 25%.Specialized in DevOps automation by implementing open-source tools like Jenkins, enhancing build and release efficiency by 30%.
- Improved deployment processes using Git Actions, cutting release times by 40%.

PROJECTS

- **AWS-Powered Handwritten Digit Recognition:** Customized using CNNs and deployed on cloud infrastructure to process image data efficiently by 76%.
- **Generative AI for Dialogue Summarization:** Trained a Generative AI Model - a dialogue summarization task using the FLAN-T5 model from Hugging Face, focusing on summarizing conversational dialogues.
- **Stock Market Real-Time Data Analysis Using Kafka :** Conducted real-time stock market data analysis using Python, Kafka, Amazon S3, and Amazon Athena; achieved a 99.9% uptime for the Kafka cluster while halving overall data processing time to enhance analytical efficiency.