JAMES TOM
DATA ENGINEER

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EDUCATION

Bachelor of Technology in Robotics

Jain University, Bangalore
2018 - 2022
GOLD MEDALIST

EXPERTISE

- Azure Databricks
- Azure Data factory
- Pyspark / SQL
- Python
- Robotics
- Machine learning and Neural networks

CERTIFICATIONS

- Microsoft Certified: Azure Data Engineer Associate (DP-203)
  Expiry: May 2025

- Databricks Certified Data Engineer Associate
  Expiry: Dec 2025

- Neural Networks and Deep Learning by DeepLearning.AI
  Issue: Oct 2020

PROFILE

Proficient Data Engineer with an extensive expertise of 2.5 years in Azure and ETL processes. I specialize in developing and optimizing ETL workflows, leveraging Azure Databricks for advanced data transformation and Azure Data Factory for seamless data pipeline orchestration. With a strong foundation in integrating and deploying scalable, secure, and efficient data architectures, I ensure that solutions meet the evolving needs of businesses. Additionally, my background includes spearheading research and projects in computer vision and robotics during my bachelor's degree.

WORK EXPERIENCE

Cognizant

Data Engineer   **Aug 2022 - Present**

- Authored several notebooks for the migration from Informatica to Azure Cloud, with a primary focus on leveraging Azure Databricks and Azure Data Factory (ADF) to enhance data processing and transformation capabilities.
- Played a key role in developing a framework for seamless integration of services to the cloud, including batch processing, logging, data ingestion, distribution, utilities, and transformations using custom modules.
- Collaborated in designing and implementing data pipelines to efficiently orchestrate and manage data workflows, ensuring high performance and reliability in cloud-based environments.

Big Data Intern   **Jan 2022 - Jul 2022**

- Gained knowledge and hands-on experience in Big Data frameworks by working extensively with Hadoop and Apache Spark, focusing on large-scale data processing and analysis.

Inventeron Technologies

Machine Learning Intern   **Jan 2020 - Mar 2020**

- Applied machine learning algorithms to solve real-world problems, utilizing Python libraries such as Pandas, NumPy, and Scikit-learn for data manipulation.
- Contributed to the development and evaluation of predictive models, focusing on data preprocessing, feature engineering, and model optimization.

RESEARCH AND PROJECTS

Led projects including:
- **Animatronic Humanoid Head Robot with Perception and Emotion Capabilities:** Engineered using control theory, embedded systems, CAD, Ubuntu Mate, OpenCV, TensorFlow Lite, I2C protocol-based microcontrollers, and 3D printing.
- **Machine Vision-Based Autonomous Vehicle:** Implemented using Nvidia's semantic segmentation model, CNN, and an AI control model.