# Lakshmi Pavani Kuncha

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## Career Highlights

- Contributed to a predictive machine learning model in **Wells Fargo** on Azure Cloud that successfully identified and prevented over 6000 fraudulent transactions in a span of 3 months.
- Automated reporting processes at Daimler Truck NA by developing interactive Tableau dashboards and data pipelines, resulting in a remarkable 60% reduction in dashboard refresh time and saving approximately 30 hours bi-weekly.
- Implemented multivariate linear regression techniques to analyze claims data, boosting forecast accuracy of recovery rates by 10% and significantly improving decision-making for stakeholders.

## Technical Skills

**Languages**: Python, R, SQL, MySQL, MongoDB, PostgreSQL, Rust, JavaScript, Scala, Julia, Matlab, SAS, SAP, Google Cloud, Spark, SnowFlake, Hive, PyTorch.
**FrameWorks**: Tensorflow, LLM, GCP, AWS, Node JS, ML Ops, CUDA, HPC, Edge Computing, Multimodal, Scikit-Learn, Linux, PyTorch, OpenCV, NLP, LLM, Generative AI, ROS, UR5, Sagemaker, RAG, Computer Vision, YOLO, Docker, EC2, S3, Azure, Spark, MapReduce, AWS Sagemaker, Git..

## Experience

**Machine Learning Data Consultant** August. 2024 – Present.
*Hoosier CN* *Remote, USA*

- Implemented Google Analytics to monitor web traffic and track user behavior, providing insights to enhance engagement and optimize traffic sources.

**Data Scientist Intern** May. 2023 – August. 2023
*Daimler Truck NA* *Detroit, Michigan*

- Developed interactive Tableau dashboards and automated reports for stakeholders, streamlining the vendor recovery process by tracking key metrics. This significantly reduced manual work, saving approximately 30 hours bi-weekly.
- Built a data pipeline using Python and SQL to automate the ETL (Extract, Transform, Load) process and data integration, optimizing reporting for dashboards and analysis, resulting in a 60% reduction in dashboard refresh time.
- Implemented multivariate linear regression using Python to identify trends, patterns, and anomalies in claims and recovery data, improving forecast accuracy of recovery rates by 10%.

**Data Scientist Intern** May. 2023 – August. 2023
*Daimler Truck NA* *Detroit, Michigan*

- Collaborated with product managers and data scientists to translate business requirements into KPIs, develop data models, and document detailed functional and technical specifications, achieving 100% project completion on time and an increase in stakeholder satisfaction.
- Identified data sources and utilized SQL and Python to extract, transform, cleanse, and manipulate both structured and unstructured data,maintaining 99% accuracy across 10+ projects requiring high-quality, analyzable data.
- Assisted in data collection, cleaning, and annotation for a predictive machine learning model on Azure Cloud, which identified and prevented 600+ fraudulent transactions within three months.

## Projects

**Co-Founder (Persona Score)** | *A **BlackRock AI** investment*

- Developed a dynamic Persona Score system using Python, adjusting weightage based on user inputs and historical data, achieving a predictive accuracy of 75% in determining financial stability, health, and education levels.
- Integrated a question-asking algorithm that adapts based on user responses, reducing the number of irrelevant questions by 30%, and ensuring key insights into financial, health, and education factors.

**Parallelizing Energy Efficient Computer Vision Deep Learning Models using CUDA** | PDF

- Worked on implementing Computer Vision models like ResNeT, VGG, AlexNET using mixed precision variables and implementing quantization.
- Implemented LNS Approximation for the Multiplication and Addition Operations. Our approach was Multimodal as it could be applied to Vision and NLP approaches. The implementation was done using C++, Python and CUDA.

## Education

**Indiana University Bloomington** Bloomington, IN
*Master of Science in Data Science* *August. 2022 – May. 2024*