

# Pranav Kuramkote Sudhir

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## Summary

Data Scientist with a robust background in developing and deploying advanced machine learning models and analytics solutions to drive digital sales and operational efficiency. Highly experienced in e-commerce analytics, cloud computing (AzureML and related platforms), and big data technologies. Proven ability to collaborate with business analysts and stakeholders to translate complex data into actionable insights, optimizing digital storefront performance. Passionate about continuous learning, innovative problem-solving, and clear communication of technical concepts.

## Skills

**Digital Sales & E-commerce Analytics:** Expertise in tracking customer behavior, conversion modeling, and optimizing digital storefronts.

**Machine Learning & Model Development:** End-to-end data science lifecycle including data gathering, feature engineering, model building, evaluation, and deployment.

**Cloud Platforms & Big Data:** Proficient with AzureML, AWS, Microsoft Fabric (basic knowledge), Apache Spark, and Databricks.

**Programming & Tools:** Python, SQL, R; TensorFlow, scikit-learn; PowerBI, Tableau.

**Collaboration & Communication:** Skilled at working with cross-functional teams to translate technical insights for business stakeholders.

**DevOps & Automation:** Experience with Docker, Kubernetes, Airflow, and CI/CD pipelines.

## Work Experience

### Veeco Instruments

San Jose, CA.

Data Scientist

Jul 2024 - Dec 2024

- E-commerce & Digital Sales Insights:** Applied machine learning models using TensorFlow to analyze digital data streams, uncovering trends in user engagement and purchase behavior to drive digital storefront optimization.
- Data Pipeline & Real-Time Analytics:** Engineered robust ETL pipelines with Apache Spark and Airflow, reducing processing time by 30% and enabling real-time monitoring of key digital sales metrics via PowerBI dashboards.
- Cross-Functional Collaboration:** Worked closely with business analysts and digital marketing teams to translate business needs into actionable data science models, ensuring model outcomes addressed key sales and customer experience challenges.
- Model Communication & Deployment:** Developed clear, concise reports and presentations to convey model assumptions, limitations, and insights to non-technical stakeholders, facilitating informed decision-making and continuous model improvement.

### HCL Technologies

Bangalore, India.

Member Technical Staff (Data Scientist)

Feb 2021 - Jun 2023

- E-commerce Analytics Leadership:** Led the development of predictive models focused on user behavior on digital platforms, resulting in a 15% increase in sales conversion rates by optimizing digital engagement strategies.
- Cloud Data Solutions:** Spearheaded the migration of on-premise data warehouses to Azure-based solutions, enhancing data accessibility and query performance by 40%—a critical enabler for real-time e-commerce analytics.
- Robust Data Ingestion:** Designed and implemented fault-tolerant data pipelines with Airflow to support continuous ingestion and processing of customer data, thereby reducing data loss risks by 25% and ensuring data quality for downstream analytics.
- Stakeholder Engagement:** Collaborated with marketing and sales teams to refine model parameters, clearly communicating technical findings and ensuring alignment between data insights and business objectives.

### Quest global Engineering

Bangalore, India.

Trainee Engineer (Data Engineer)

June 2020 - Dec 2020

**Data Quality & Automation:** Automated data cleaning processes using Python and SQL, improving data quality and saving significant manual effort, which contributed to more reliable model training data.

**CI/CD for Analytics:** Developed a CI/CD pipeline for analytics reporting using Jenkins and Git, reducing deployment times by 50% and ensuring timely updates to business intelligence dashboards.

**Performance Optimization:** Enhanced database query efficiency by 40%, accelerating data retrieval processes crucial for real-time digital sales reporting and analysis.

## Education

### Northeastern University, Boston, MA

Master of Science, Data Analytics

May 2025

- Achievements: GPA: 3.89/4.0
- Courses: Data mining, MLOps, Database Management, Data Visualization, Web Development

## Projects

- E-commerce Analytics Dashboard:** Developed an interactive PowerBI dashboard to track sales, customer behavior, and conversion rates for a digital storefront, enabling rapid, data-driven strategy adjustments.
- Predictive Maintenance:** Built a predictive model using TensorFlow to forecast equipment failures, reducing downtime by 15% and enhancing operational efficiency.
- Toxic Comments Analysis:** Engineered a machine learning pipeline with Python, scikit-learn, and NLTK to perform multi-label classification on user-generated content, refining skills in feature engineering and model interpretation.