

MONISHA PATRO

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WORK EXPERIENCE

Theraprove Intelligent care-matching for pediatric therapy access	June 2025 to Present
Data Scientist New York, USA	
<ul style="list-style-type: none">Developed ML recommendation system to match children with therapists, cutting response time from weeks to real-time.Analyzed CRM and queue metadata using SQL identifying client bottlenecks and prioritization strategies.	
Candid Nonprofit intelligence via data integration	May 2024 to December 2024
Data Scientist New York, USA	
<ul style="list-style-type: none">Built scalable ETL pipelines in SQL & Python automating data ingestion, accelerating analytics by 25%.Integrated mastered datasets into public APIs, enhancing accessibility and uptime for 10K+ users.Collaborated with cross-functional teams to translate stakeholder requirements into Power BI dashboards informing product strategy, contributing to a 15% increase in product adoption and tracking key KPIs.	
EProttons Real Time analytics for EV stations	February 2023 to July 2023
Data Scientist Hamburg, Germany	
<ul style="list-style-type: none">Led revamp of PostgreSQL indexing enhancing query performance by 27% powering predictive forecasting.Engineered distributed data pipelines on AWS EMR and PySpark with Python, orchestrating parallel data processing workflows that yielded a 5x acceleration in large-scale analytics tasks.Designed controlled A/B experiment on EV pricing strategies, revealing a 12% lift in revenue performance.	
Mukham AI attendance and geofencing product	October 2022 to March 2023
Data Analyst Hyderabad, India	
<ul style="list-style-type: none">Led development of CNN-based facial authentication models, cutting spoofing incidents by 50%.Boosted fraud performance using geolocation and time-series signals into predictive models, by 35%.Established end-to-end facial-image preprocessing pipeline with OpenCV, improving image quality.	

PROJECTS

eBay Product Strategy Analytics

- Architected large-scale datasets by integrating eBay API, transforming raw data into pipelines enhancing marketplace prices listing insights.
 - Analyzed listing formats to uncover insights driving 12% higher sell-through, shaping pricing strategies.

Amazon Product Review Analysis

- Fine-tuned NLP models on reviews to enable ad ranking for campaign targeting and product decisions.
 - Deployed tone error analysis on AWS, improving reliability for brand tracking and response strategy.

EDUCATION

Indiana University Bloomington *United States*
Master of Science in Data Science August 2023 to May 2025

Vellore Institute of Technology

Bachelor of Technology in Computer Science June 2019 to May 2023

SKILLS

Programming and Databases: Python, SQL, R, PySpark, ETL.

Statistics/Experimentation: A/B Test, Causal, Forecasting, Correlation Analysis, Time-series Analysis.

ML/Visualization: Power BI, Regression, Classification, Predictive Modeling, Recommendation Systems.