

MONISHA PATRO

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WORK EXPERIENCE

Theraproove | Intelligent care-matching for pediatric therapy access June 2025 to Present
Data Scientist | New York, USA

- 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 Science Intern | New York, USA

- 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.

EProtons | Real Time analytics for EV stations February 2023 to July 2023
Data Science Intern | Hamburg, Germany

- 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

- 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.