

MONISHA PATRO

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WORK EXPERIENCE

Therapprove | 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.