

WANSHIKA PATRO

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SUMMARY

Data professional with 3+ years of experience in analysis, machine learning, and engineering pipelines. Skilled in Python, SQL, R, and Spark, with a track record of building data pipelines, deploying ML models, and developing dashboards that support business decisions. Strong background in statistics and data modeling, with the ability to turn complex data into practical insights and collaborate effectively with cross-functional teams.

EDUCATION

- **University at Buffalo, SUNY** | Buffalo, NY
Master of Science in Data Science | Jun 2025
- **KIIT University** | Bhubaneswar, India
Bachelor of Technology in Computer Science | Aug 2021

SKILLS

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|---|---|
| • Programming & Tools: | Python, R, SQL, Spark |
| • Data Science & Engineering: | Machine Learning, Time Series, ETL Pipelines, Data Cleaning and Transformation |
| • Visualization & Collaboration: | Tableau, Power BI, Streamlit, Matplotlib, Seaborn, Agile/Scrum, Stakeholder Communication |

EXPERIENCE

Graduate Data Analyst

University at Buffalo – Buffalo, NY | May 2024 – May 2025

- Cleaned and transformed 120K+ student and resource records, improving reporting accuracy by 20%.
- Built 4 dashboards for KPIs, reducing manual reporting time by 25%.
- Analyzed 10+ departmental datasets to identify trends supporting faculty decisions.

Business Data Analyst

Somnath Stone Products –Odisha, India | Jul 2022 – Jan 2024

- Built pipelines processing 10K+ monthly records, improving demand planning accuracy by 20%.
- Designed 5+ dashboards to track KPIs, reducing reporting time by 30%.
- Conducted demand analysis that enabled 2 new market expansions.

Data Analyst – Application Development

ACCENTURE - Pune, India| Jul 2021 - Jun 2022

- Processed 100K+ logs with SQL/Python, improving triage accuracy by 25%.
- Automated 10+ workflows, reducing manual resolution time by 40%.
- Built SLA/KPI dashboards, cutting incident delays by 20%.

Data Analyst – Operations & Reporting

Essfour Eng. Pvt. Ltd. – Surat, India | May 2020 – Jun 2021

- Cleaned and integrated 50K+ production/procurement records, increasing reporting accuracy by 25%.
- Built dashboards to track material usage and delivery timelines, reducing planning errors by 15%.
- Collaborated with engineers to implement data-driven tracking, contributing to a 10% reduction in project delays.

PROJECTS

Revenue Forecasting Dashboard | Python, XGBoost, Tableau, Streamlit

- Modeled 145K+ records, improving forecast accuracy by 18%.
- Built dashboards used by 20+ stakeholders for anomaly detection and planning.
- Delivered forecasts that improved inventory allocation by 10%.

Crime Trend Analysis | Python, SQL, Tableau, Matplotlib

- Processed 1M+ records, achieving 83% forecasting accuracy.
- Built predictive heatmaps, improving allocation efficiency by 15%.
- Findings influenced 2 safety initiatives.

Stock Price Prediction & Simulation | Python, RF, SVM, Pandas

- Forecasted stock movements with 82% accuracy using technical indicators.
- Simulated 10+ failure modes to test model robustness.
- Benchmarked batch vs streaming inference, reducing latency by 35%.

AI-Powered Recommendation System | Python, Flask, Recommender Models

- Built a hybrid recommender that increased engagement by ~25% in testing.
- Delivered real-time results via Flask API with latency under 200ms.
- Refined KPIs and ran cohort tests, improving CTR by 15%.

Toxic Comment Detection | Python, BERT, Scikit-learn, Streamlit

- Deployed NLP tool that reduced manual moderation by 30%.
- Improved precision by 12% with BERT vs logistic regression.
- Integrated 50+ feedback loops, boosting adoption.

LEADERSHIP & INITIATIVES

- **Meta Kaggle Hackathon (2025):** Built ML pipelines for code metadata, improving scalability and usability.
- **Stanford/DeepLearning.AI – Supervised ML (In Progress):** Strengthening regression, classification, and optimization skills.
- **Volunteer, Animal Rescue NGO:** Designed data-driven campaigns, boosting engagement by 20%.
- **Digital Strategy Lead, MUN Team:** Coordinated cross-functional teams for large-scale events.