

# Nibedita Sahu

Data Scientist

[Portfolio](#) | [GitHub](#) | [LinkedIn](#) | [Medium](#) | [Kaggle](#)

## PROFESSIONAL SUMMARY

---

Data Scientist with a strong mathematical foundation, specialized in building end-to-end ML systems and AI-powered decision tools. Proven expertise in translating complex statistical theory into production-ready Python workflows and optimized SQL structures. Recognized as a Technical Content Creator for simplifying complex DS concepts and documenting high-scale research for the developer community.

## SKILLS

---

- **Data Science & ML:** Mathematical Modeling, Supervised Learning, and Time-Series using Python (NumPy, Pandas, Scikit-learn, StatsModels, SciPy) and SQL (MySQL, PostgreSQL).
- **AI & Decision Intelligence:** Leveraging Generative AI (LLMs) to transform model outputs into actionable business insights and data-driven decisions.
- **Visual Storytelling:** Advanced data visualization and EDA using Matplotlib, Seaborn, Power BI, and Tableau to communicate insights to technical and non-technical stakeholders.

## EXPERIENCE

---

### Technical Content Creator & Researcher | Medium (May 2023 – Present)

- Curate specialized research lists including [ML for DS](#), [Intro to Statistics](#), [NumPy for DS & DA](#), and [Pandas for DS & DA](#), with articles featured in prominent Data Science publications.
- Maintain [Data Projects](#) and [DS Playground](#) lists, providing end-to-end walkthroughs of Machine Learning systems and exploratory lab projects.

### Technical Content Writer | GeeksforGeeks (Sep 2023 – Sep 2024)

- Authored 10+ technical articles on SQL Optimization and Python Performance, clearing a rigorous editorial review process for technical accuracy and depth.

## PROJECTS

---

### Customer Retention & Revenue Optimization System

Python (NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn) | SQL | Generative AI (LLMs)

- Built an end-to-end system to predict customer churn and purchase probability, enabling targeted strategies based on customer behavior.
- Applied predictive modeling and optimization techniques to identify high-value customers under budget constraints, focusing on measurable business impact.
- Integrated a Generative AI layer to translate model outputs into business insights, improving decision-making and interpretability.

### End-to-End Time Series Analysis & Forecasting (Nutrition Data)

Python (NumPy, Pandas, Matplotlib, StatsModels, Scikit-learn) | Power BI | Tableau

- Performed rigorous time-series analysis to identify trends, seasonality, and patterns in multi-year consumption behavior.
- Built forecasting models with a focus on statistical assumptions, interpretability, and data-driven consumption behavior.

### Electric Vehicle Population Analysis

Python (NumPy, Pandas, Matplotlib, Seaborn) | SQL | Power BI | Canva

- Analyzed large-scale EV population data using SQL and Python to identify adoption trends, regional distribution, and growth patterns in a policy-focused context.
- Delivered actionable insights through a multi-page Power BI report and presentation, focusing on visualization and clear storytelling.

## EDUCATION

---

### Bachelor of Science in Mathematics

Kalahandi University, Bhanjanipatna | Odisha, India | 2020 - 2023