

# Souritra Banerjee

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## PROFESSIONAL SUMMARY

Results-driven data science professional with more than five years of experience delivering analytics, machine learning and business intelligence solutions at Amazon and within the education sector. Expert in building end-to-end data pipelines, forecasting models and interactive dashboards using SQL, Python and AWS to optimize supply chain operations and support strategic decision making. Proven ability to collaborate across research, operations and program teams to deliver efficient, scalable and cost-effective solutions.

## CORE COMPETENCIES

<b>Programming &amp; Databases</b>	Python, SQL, PostgreSQL, Advanced Excel, AWS
<b>Data Analytics &amp; ML</b>	Exploratory Data Analysis (EDA), Statistical Analysis, Time-Series Forecasting, Predictive Modeling, Regression & Classification, Clustering, Natural Language Processing (NLP)
<b>Tools &amp; Visualization</b>	AWS Quicksight, Tableau, Power BI
<b>Soft Skills</b>	Stakeholder Management, Strategic Planning, Problem Solving

## WORK EXPERIENCE

### AMAZON DEVELOPMENT CENTER PVT LTD

Bengaluru

*Business Intelligence Engineer*

*Jun 2024 - Present*

- Supported research scientists in building **complex SQL, AWS-based data pipelines, CI/CD pipelines and reporting Dashboard (AWS Quicksight)** for MENA supply chain projects, ensuring efficient data flow and accessibility, while coordinating with multiple stakeholders.
- Partner with research scientists to develop scenario simulation self service tool for Middle East & North Africa supply chain initiatives, enhancing logistics efficiency and delivery speed using **Python packages, Git & AWS**.
- Develop and maintain **time-series forecasting models (ML)** for package volumes and oversize share using **Prophet and XGBoost**, achieving approximately 3% error and enabling accurate capacity planning.

### AMAZON SELLER SERVICES PVT LTD.

Bengaluru

*Business Analyst*

*Jun 2023 - Jun 2024*

- Conducted **sentiment analysis** on customer reviews for hardlines products using **Python NLP & transformer-based models (BERT)**, delivering insights that improved value-added services by 55 %.
- Designed secure **SQL- and AWS-based pipelines** to streamline data flow and accessibility, collaborating with cross-functional stakeholders to ensure alignment.
- Produced daily, weekly and monthly dashboards and reports in **Excel and AWS Quicksight** for operations and customer experience teams, tracking key metrics and enhancing delivery speed and customer satisfaction by 30 %.

*Data Analyst*

*Sep 2022 - Jun 2023*

- Automated retrieval of delivery partner details via **Python Selenium scripts**, achieving complete coverage and reducing manual effort by 500 %.
- Built personnel allocation models for India and Japan last-mile teams, streamlining resource planning processes and increasing efficiency by 150 %.
- Optimized data workflows through **complex SQL queries and AWS Quicksight dashboards**, reducing manual effort by 50 %, mentoring team members and supporting program managers.

### ENSEMBLE EDUCATION INNOVATION PVT LTD

Noida

*Business Analyst*

*Jun 2020 - Aug 2022*

- Analyzed large datasets using **SQL, Excel and Power BI** to uncover insights that drove a 200 % improvement in operational efficiency and informed data-driven solutions.

- Partnered with cross-functional teams to define business requirements, resolve engineering roadblocks and lead business development initiatives, achieving a 96 % success rate.
- Developed **interactive dashboards** to communicate key performance indicators and implemented cost-cutting strategies that supported company growth.

## PROJECT EXPERIENCE

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### AMAZON

**Bengaluru**

#### *Tactical Hub for Automated Network Optimisation*

- Contributed and developed scenario simulation to build a self service tool - Thanos (Tactical Hub for Automated Network Optimisation) for Middle East & North Africa supply chain initiatives, enhancing logistics efficiency, optimising network costs and delivery speed.
- Built and maintained data pipelines & reporting dashboards enabling network optimization and scenario simulations for Thanos in the Middle East and North Africa, reducing decision-making turnaround time and improving logistics outcomes.

#### *Middle Mile Package Cube Forecasting*

- Designed and maintained forecasting models for package volume and oversize share using Prophet and XGBoost, producing high-accuracy predictions ( $\approx 3\%$  error) and supporting strategic resource planning

#### *Last-Mile Transfer Optimization*

- Contributed to optimizing middle-mile & last mile transfer operations by analysing performance data and applying statistical and machine learning techniques to improve efficiency and reduce transit times.

## EDUCATION

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### IIT MADRAS

**Chennai**

*PGP in Data Science & AI*

*Graduation Date: Mar 2023*

### MAKAUT (WB)

**Kolkata**

*BTech in CSE*

*Graduation Date: Jul 2016*

## CERTIFICATIONS

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- Machine Learning with Python – Certificate (June 2022)
- Google Data Analytics Professional Certificate (Apr 2022)
- Understanding & Visualizing Data with Python (Apr 2022)
- SQL Gold Badge – HackerRank