Sreyashi Bhattacharya
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Data Scientist | Skilled in Python, SQL, ML, and Data Visualization
Transforming complex data into actionable insights with expertise in machine learning, econometrics, and dashboarding. Passionate about driving smarter business decisions and fostering data-driven innovation. Beyond work, I am passionate about empowering underrepresented women and children

PROFESSIONAL EXPERIENCE

Accenture, Plc   **Bengaluru, India**
Senior Data Science Consultant   *May 2022 – Feb 2023*
Enhancing Demand Forecasting and Business Intelligence for High-Tech Products
- Built machine learning models using TensorFlow and advanced feature engineering, achieving a 15% improvement in prediction accuracy
- Conducted ad-hoc analyses for a $14B SKU portfolio, leveraging RFM (Recency, Frequency, Monetary) segmentation to deliver actionable insights for 100+ high-value customers.
- Secured a new client by building and presenting a dashboard showcasing business unit capabilities

Accenture, Plc   **Bengaluru, India**
Data Science Consultant   *Sept 2020 – May 2022*
Demand forecasting for a Fortune 500 Technology Company
- Enhanced forecasting accuracy from 38% to 45% over five quarters using econometric models with bagging and boosting algorithms.
- Consolidated 10 years of data for 100+ products into monthly time series using Oracle SQL and Talend, enabling precise demand predictions.

Optimizing Sourcing Network for a Consumer goods brand
- Reduced sourcing costs by 8% using linear programming and Min-Cost Max-Flow Algorithm, while streamlining supplier routes for personal care and household products.
- Developed an interactive Power BI tool to optimize supplier routes, driving data-driven decisions and enhancing operational efficiency.

San Diego Gas & Electric   **California, United States**
Data Scientist Intern   *April 2024-June 2024*
- Designed and deployed an NLP algorithm to automate power outage cause classification, boosting processing efficiency by 50%.
- Utilized Chain of Thought (CoT) prompt engineering and A/B testing to improve model performance by 15% for classifying primary and secondary causes.

PROJECTS

Forecasting with SageMaker(Professor Amy Nguyen-Chyung): Implemented demand forecasting using Amazon SageMaker, integrating NLP and cloud-based solutions to enhance scalability

Google Review Analysis(Prof. Julian McAuley): Used regression, latent factor models, and sentiment analysis to predict star ratings, providing actionable insights to improve customer satisfaction and retention.

Parking Pricing Analysis in San Diego: Analyzed daily parking meter transactions and proposed a Park & Ride shuttle solution, achieving 30% cost efficiency within 2 months by optimizing parking strategies

SPECIALIZED SKILLS

- **Programming Languages:** Python (TensorFlow, Scikit-learn, SciPy, Matplotlib, Seaborn, Plotly) , SQL/NoSQL, R, Shell Scripting, STATA
- **Cloud Platforms:** AWS (SageMaker), Snowflake
- **Dashboarding Tools:** Tableau, Power BI, OBIEE

EDUCATION

MS in Business Analytics, University of California, San Diego, CA (GPA-3.65)   ***Dec 2024***
- Coursework: Machine Learning, Artificial Intelligence, and Advanced Statistical Modeling.
- Ranked 3rd globally for sustainable investing and wealth management solutions.

Masters in Economics, Jadavpur University, Kolkata, India   ***July 2020***
- Specialization:Corporate Finance and Econometrics.
- Coursework: Game Theory, Optimization Techniques, and Bayesian Analysis.