

# Aniruddha Ganguly

Email: [emailtoaniruddhaganguly@gmail.com](mailto:emailtoaniruddhaganguly@gmail.com) | +1 (862) 339-9717 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#) | United States

---

## PROFESSIONAL EXPERIENCE

### Data Scientist, New Jersey Institute of Technology, United States

Jan 2021 - May 2022

- Collaborated with the Office of Naval Research to build Machine Learning models using LSTM, Neural Network and Logistic Regression to optimize the **Ship Maintenance Workflow** that increases the overall ship availability by 18% across all shipyards and ship types.
- Created models utilizing PCA, multiple timeline projections, LSTM, Neural Networks, Anomaly Detection and Ensemble process that determines the successful **Delay Prediction** of the ships is possible with 87% confidence at early 20% of the completion timeline.
- Designed models using TFIDF, n-grams, Neural Networks, Google's BERT, Context Analysis that quantify the **Intangible Asset** from public Financial Reports with 98% confidence.
- Analyzed data using Topic Modeling and Trend Analysis that shows important changes in **Intangible Investments** over the years having almost 23% impact on the stock price changes.

### Data Scientist, Myntra (Walmart Inc.), India

Feb 2017 - Dec 2020

- Created Deep Learning Models using Logistic Regression, Random Forest, SVM and Neural Networks based on Customers' interactions (Clickstream Data) to predict **Customer Annual Churn** for e-commerce Fashion industry with resulted in 8% increase in Customer Acquisition and 15% increase in Customer Retention.
- Built **Size and Fit Recommendation Engine and Virtual Fit Assistant** for Online Fashion Industry using Collaborative filtering, Matrix Factorization, Neural Networks and multiclass classification models which generates recommendations helped the company to lower Returns caused by Size and Fit issues by 5%.
- Developed Classification Models using Natural Language Processing (NLP), TFIDF, N-grams, BERT to segregate **Monkey Typed Addresses (Randomly Typed by Users)** that increases the monthly success rates in terms of deliverability by 6%.
- Coached and managed a team of Interns to solve NP-Hard Optimization Problem to **Automatic Shipment Allocations** using Linear Programming which decreases the delivery failure rate caused by misplacement and performance by 11%.

### Senior Data Analyst, Capital One, India

Mar 2015 - Jan 2017

- Created data models and procedures and generated several automated reports using Python and SQL to detect anomalies and generate SARs (Suspicious Activity Reports) to maintain 100% compliance in terms of **Anti-Money Laundering** and Terrorist Funding risks.
- Designed reusable Reporting Framework helps the Bank to generate **Compliance Reports** without manual intervention resulted in decreasing manual cost by 80% in terms of time and resources going forward.
- Actively taken part in building Money Laundering Risk Assessment process for Small Business Banking and Credit Cards which covers 30% of Bank's total compliance that scores the customers in terms of risks related to **Anti Money Laundering**.

### Data Analyst, ITC Infotech Pvt. Ltd., India

Mar 2013 - Feb 2015

- Built **ETL Workflows** using Informatica to automate processing Policies and Claims for an Insurance Company which decreases the Turn Around Time for processing claims by 18%.
- Designed Dashboards using QlikView for managing and tracking the important metrics for processing Insurance Claims.

---

## SKILLS

- **Languages:** Python, SQL, R, C++
- **Databases:** MySQL, MS SQL Server, Oracle SQL, Redshift
- **Libraries:** Keras, TensorFlow, PyTorch, NumPy, Pandas, Matplotlib, sklearn, Seaborn, BeautifulSoup, NLTK
- **Cloud Services:** AWS, Azure

---

## EDUCATION

- **Master's in Computer Science, New Jersey Institute of Technology, NJ** **GPA: 3.5/4** **May 2022**  
Courses: Machine Learning, Linear Algebra, Deep Learning, Data Mining, Data Analytics with R
- **Bachelor's in Information Technology, NIT Durgapur, India** **GPA: 7.1/10** **May 2013**  
Courses: Data Structures & Algorithm, DBMS, Operating Systems, Object-Oriented Programming