# Aniruddha Ganguly

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

## PROFESSIONAL EXPERIENCE

**Data Scientist,** New Jersey Institute of Technology, United States **Jan 2021 - May 2022**

- **Ship Maintenance Workflow Optimization**

  Built optimization models in collaboration with Office of Naval Research to reduce delay based on load and complexity of tasks using Time Series Analysis, LSTM and multiple timeline projections that increases the overall ship availability by 18% across all shipyards and ship types. The model also predicts delay with 87% confidence at early 20% in the overall timeline.

- **Intangible Asset Quantification**

  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. Topic Modeling and Trend Analysis shows important changes in Intangible Investments over the years having almost 23% impact on the stock price changes.

**Data Scientist,** Myntra Designs Pvt. Ltd. (Walmart Inc.), India **Feb 2017 - Dec 2020**

- **Customer Annual Churn Prediction**

  Created Machine Learning Models using Logistic Regression, Random Forest, SVM and Neural Networks based on Customers' interactions (Clickstream) to predict Customer Annual Churn for e-commerce Fashion industry that resulted in 8% increase in Customer Acquisition and 15% increase in Customer Retention.

- **Size and Fit Recommendation Engine and Virtual Fit Assistant**

  Built Size and Fit Recommendation Engine for Online Fashion Industry using Collaborative filtering, Matrix Factorization, Neural Networks and multiclass classification models which generates size and fit recommendations helped the company to lower Returns caused by Size and Fit issues by 5%.

- **Monkey Typed Addresses (Randomly Typed by Users) Classification**

  Developed Classification Models using Natural Language Processing (NLP), TFIDF, N-grams and BERT to segregate Monkey Typed Addresses that decreases the monthly delivery failure rates by 6%.

- **Automatic Shipment Allocations**

  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 Financial Corporation, India/United States **Mar 2015 - Jan 2017**

- **Suspicious Activity Reports**

  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.

- **Compliance Reports Automation**

  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.

- **Money Laundering Risk Assessment**

  Actively taken part in 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 and Reconciliation Scripts using SQL to automate processing Policies and Claims for an Insurance Company which decreases the Turn Around Time for processing claims by 18%.

## 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