Aniruddha Ganguly

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WORK 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 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 LSTM and Neural Networks based on Customers' interactions (Clickstream Data) to predict **Customer Annual Churn** for e-commerce Fashion industry with 86% confidence 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** Models to process and analyze data in **Insurance Domain**
- Tools Used: Informatica, DataStage, QlikView

SKILLS

- **Languages**: Python, SQL, R
- **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