

# DISHA LAMBA

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## WORK EXPERIENCE

### Quantum Risk Analytics

Machine Learning Developer Intern

New York City, NY

Dec 2023 – Present

- Applied **Logistic Regression** to predict disease risk and global spread using healthcare data, achieving **90%** accuracy.
- Generated insightful data visualizations using **Tableau** for presentation to senior leadership and capture requirements.

### Subconscious AI

Research Intern

New York City, NY

July 2023 – Present

- Optimized Casual Market Research product using **Python, SQL**, through data pre-processing and feature engineering, achieving **25%** performance boost and **30%** improvement in data quality.
- Implemented content filtering using **Hate-Speech API**, achieving **90%** moderation improvement, **saving 200+ hours**.
- Streamlined project timelines and resource utilization in a **Git** and **Agile** environment, enhancing the development lifecycle.

### Data Glacier

Data Science Intern

New York City, NY

June 2022 – Aug 2022

- Developed semantic text-ranking search engine, enhancing user experience and **45%** improvement in operational efficiency.
- Implemented ETL with **SQL, Pandas**, transforming and cleaning unstructured data (~1M) to reduce analysis time by **30%**.
- Attained **85%** accuracy using Python-based **BERT and TF-IDF** ensemble model for effective natural language processing.
- Optimized data storage & processing with **AWS S3, Lambda**, achieving **25%** data access improvement, and cost reduction.

### Sapio Analytics

Machine Learning Developer

Mumbai, India

July 2020 – June 2021

- Spearheaded development of job-search portal for the Government of India, generating **1.2M job opportunities** nationwide.
- Achieved **85%** accuracy in user-job matching using scikit-learn's K-nearest neighbor algo, tailored for user location, skillset.
- Collaborated with cross-functional teams to integrate ML model with **ReactJS**, enhancing user engagement by **25%**.
- Devised **A/B experiments** in collaboration with product team for data-driven decision-making and testing.

## SKILLS

**Technical:** Python, R, SQL, SAS, Postgres, Hadoop, Spark, Kafka, PowerBI, Tableau, Google Analytics, Advanced Excel (Pivot Table, VLOOKUP, Macros), SciPy, TensorFlow, NumPy, Pandas, Scikit-learn, Matplotlib, ggplot, HTML/CSS, ReactJS

**Cloud Services and Tools:** Amazon Web Services (AWS), Snowflake, Git, Linux, Docker

**Others:** Data Mining, Data Warehousing, Regression, Clustering, Predictive Analytics, Quantitative Analysis, A/B Testing

## PROJECTS

### Data Analytics - Portfolio Optimization (MS Excel, Tableau)

- Revamped deterministic model with **Excel Solver** for portfolio optimization, resulting in **18%** decrease in projected costs.
- Developed **Tableau** dashboards for portfolio performance, risk metrics, KPIs for informed investment decision-making.

### Big Data - Movie Recommendation System (Python, Spark, SQL) [[GitHub](#)]

- Utilized SQL, Pandas, and Matplotlib for EDA, extracting valuable insights from a large 27M MovieLens dataset.
- Built a baseline recommender system using **collaborative filtering ALS algorithm in PySpark**. Compared its performance against **Python LightFM, Annoy** models, achieving an accuracy of **92%** to deliver top 3 recommendations.

## EDUCATION

### New York University

Master of Science in Computer Engineering

NY, USA

May 2023

Coursework: Machine Learning, Deep Learning, Statistics, Big Data, Decision Optimization Models and Data Analytics

Course Assistant: Deep Learning, Computer Networking

### Guru Gobind Singh Indraprastha University

Bachelor of Technology in Information Technology

Delhi, India

September 2020

Coursework: Data Structures and Algorithms, Cloud Computing, Database Management Systems, Natural Language Processing

## ACHIEVEMENTS AND LEADERSHIP

- Best Medical Hack** at [MHacks 13 hackathon](#); developed ReactJS app to match COVID-19 patients with plasma donors.
- Conference attendee** at AWS re:Invent'23 (Scholar), Grace Hopper Celebration'23, Strange Loop'22 (Scholar).
- Former **Vice President**, NYU Machine Learning Club: Ignited machine learning interest in 30+ students.