# **Anurag Mallick**

Phone: +1 732-801-8730 Linkedin: <a href="mailto:linkedin:com/in/anurag-mallick@rutgers.edu">linkedin: linkedin:com/in/anurag-mallick@rutgers.edu</a>
Github: <a href="mailto:github.com/mallick20">github.com/mallick20</a>

#### **WORK EXPERIENCE**

• Applied Data Finance 2021 - 2024

Senior Data Scientist

- Utilized NLP Techniques to analyze and mitigate operational risks across various modes of communication.
   Developed models to identify risks with 70% precision to make the process efficient.
- Built Topic Models using BERTopic to segment customer requests. Effectively grouped up to 80% of customer requests into Valid Topics for more efficient resolution.
- Led the foundation for improved resource management by categorizing and prioritizing cases for manual review, leading to more efficient review and response times.
- Worked on finetuning LLM for better classification of customer complaints.

#### Data Scientist

- Built a classifier model using customer's repayment behavior to predict the success rate of payment retries and successfully segmented low-risk accounts, having a **37% higher success rate** than average.
- Enhanced the Best Time to Call strategy to call customers according to their preferences and call history. Achieved a mean **increase of 20% RPCs** over six months.
- Conducted in-depth analysis of returning customers to fix defects in the data and explore trends according to issues in disbursal plans.
- Designed campaigns to engage delinquent customers and used statistical analysis to test the outcomes among various segments and improve collections.

### **EDUCATION**

#### **Masters in Data Science**

• Rutgers, The State University of New Jersey

Courses: Prob. & Statistical Inference for Data Science, Regression and Time Series, Data Structure and Algorithm,

## **B.E in Electrical and Electronics Engineering**

Birla Institute of Technology and Science, Pilani
 2021

#### RESEARCH EXPERIENCE

## • Real-Time Tweet Classification

BITS Pilani 2021

- Implemented the foundational framework for classifying tweets based on their Non-Profit status.
- Pre-processed raw tweets using regular expressions and developed the dataset processing pipeline.
- Used BERTweet to build and integrate the classification pipeline's Level 1 (L1) and Level 2 (L2) stages.

## • Indian Language Machine Translation

IIT Roorkee 2020

- Utilized deep learning framework to improve the accuracy of machine translation for Indian Languages.
- Implemented word-level translation of OOV words, achieving a **BLEU Score of 73.5%**.

#### **SKILLS**

- · Data Analysis and Visualization
- Machine Learning: Linear Regression, Logistic Regression, Gradient Boosting
- NLP: Text Processing, Document Classification, Topic Modelling, LLM Finetuning
- ML Libraries: Pytorch, Scikit-Learn, NLTK, Spacy
- Technical Skills: Python, R, C++, SQL, Redshift, Git, Microsoft Office Tools
- Soft Skills: Concise Presentation, Time, and Resource Management

#### **AWARDS**

• Secured 2nd position at ADF Data Science Hackathon – 2022 Built an XGBoost Model to predict customer risk using Tradeline Attributes.