SHIVEN BARBARE

Atlanta, GA • (470) 399-9365 • barbareshiven@gmail.com • www.linkedin.com/in/shiven-barbare

EDUCATION

Georgia Institute of Technology **Atlanta, GA**
Master of Science, Analytics (GPA: 4.00) *Aug 2023-Dec 2024*

- Coursework: Machine Learning, Natural Language Processing, Data & Visual Analytics, Database Systems

Indian Institute of Technology Bombay **Mumbai, India**
Bachelor of Technology, Mechanical Engineering (GPA: 9.08) *Jul 2019-Aug 2023*

- Minor: Artificial Intelligence and Data Science

SKILLS

Programming and Scripting Languages: Python, R, SQL, C++, MATLAB, JavaScript
Data Analysis and Visualization Tools: Tableau, D3.js
Big Data and Cloud Technologies: Azure, AWS, Spark, Databricks
Machine Learning and AI Frameworks: TensorFlow, PyTorch

PROFESSIONAL EXPERIENCE

Edible Arrangements **Atlanta, GA**
Data Science Intern *May 2024-Jul 2024*

- Developed a hybrid recommendation system in Azure Synapse Studio leveraging collaborative and content-based filtering for 1000+ SKUs and 2M+ transactions; implemented ETL pipelines for efficient data integration
- Built a sales forecasting model with Prophet and Dask in Azure ML Studio, forecasting sales for 800+ stores across multiple DMAs using 10 years of historical data
- Implemented an interactive map-based visualization tool for zip code coverage analysis for strategic decision-making
- Collaborated with cross-functional teams to develop a GTM strategy targeting Gen Z, presenting actionable insights on platform optimization, marketing, and product strategy to the executive team

FinIQ Consulting **Pune, India**
Trading Platform Analyst Intern *May 2022-Jul 2022*

- Led System Integration Testing of the trading platform for a global bank with EUR 4.6 billion in annual profit
- Designed an Angular-based dashboard, enhancing client engagement through advanced holdings visualization
- Implemented Geometric Brownian Motion simulations in Excel VBA for improved pricing of fixed coupon notes

PROJECTS

Predictive Traffic Modeling and Visualization
Beep-Analytics Capstone Project *Aug 2024-Present*

- Developing a predictive traffic flow model by integrating real-time traffic data from TomTom API and implementing an interactive visualization tool for fleet monitoring and routing applications

Hate Speech Recognition & Sentiment Analysis of YouTube Comments
A robust model to identify negative tones and toxic language within comments *Jan 2024-May 2024*

- Constructed a sentiment analysis pipeline using BERT, achieving 82% accuracy in hate speech detection on 5,000+ YouTube comments, enhancing content moderation insights
- Developed a dimensionality reduction and clustering framework with autoencoders and K-Means for topic modeling to identify uncovered sentiment patterns and themes

Model Compression for Intent Detection in Customer Care Calls
Best Buy-Georgia Tech Analytics Project; Special Mention for Most Innovative Approach *Dec 2023-Jan 2024*

- Led model compression for customer care intent detection on a sizable dataset of 350k+ interactions
- Innovated a cascade approach for label clustering with a spaCy pipeline, integrating TF-IDF and word2vec
- Deployed a fine-tuned two-layer model with XGBoost, achieving a competitive micro-averaged F1-score of 0.6

PyRated
A python framework for detecting source code plagiarism in C++ programs *May 2021-Jul 2021*

- Engineered a python framework for detecting plagiarism in C++ programs with NLTK, NumPy and matplotlib
- Achieved 91.32% accuracy in plagiarism detection with a multi-layered structure and attribute-based code comparison