# Nisarg Shah

New Brunswick, NJ | +1(848)-202-2044 | ns1452@scarletmail.rutgers.edu | linkedin.com/in/shahnisarg200/ | github.com/shahnisarg200

## EDUCATION

**Rutgers University, New Brunswick, New Jersey**                                          Sep 2022 - May 2024
Master of Science in Computer Science

**Dwarkadas J. Sanghvi College of Engineering, Mumbai, India**                    Aug 2018 - Jun 2022
Bachelor of Engineering in Electronics and Telecommunication

## TECHNICAL SKILLS

**Programming Languages:** Python, R, JavaScript, HTML, CSS, Java, MATLAB
**Databases and BI Tools:** MySQL, NoSQL, SQL, PostgreSQL, Snowflake, Tableau, Power BI, MongoDB, Excel
**Framework and Libraries:** PyTorch, TensorFlow, NumPy, Scikit-learn, Pandas, Matplotlib, Seaborn, React, Node.js
**Data Engineering:** Spark, Hadoop, MapReduce, Kafka, AWS, GCP

## PROFESSIONAL EXPERIENCE

**Graduate Teaching Assistant** | *Pandas, NumPy, Matplotlib*                              Jan 2024 – May 2024
*Computer Applications for Business*

- Implemented labs designed to simulate real-world data science scenarios for businesses, such as data cleaning and preprocessing using Python libraries

**Simbott – Simulation Technology, Mumbai** | *Python, SQL, PowerBI*                   Jul 2021 – Oct 2021
*Data Science Intern*

- Collaborated with stakeholders and cross-functional teams to analyze data discrepancies, enhancing data integrity by 45%.
- Conducted market research to identify high-potential clients, resulting in a $10K increase in sales revenue.
- Developed and maintained comprehensive dashboards for real-time visibility into key performance indicators (KPI) such as skill acquisition rate and time to proficiency, facilitating effective monitoring and decision-making.

**Pixeldust Technologies Private Limited, Mumbai** | *Python, SQL, Snowflake*         Apr 2021 – Jun 2021
*Data Science Intern*

- Constructed regression models accomplishing an accuracy rate of 90%, driving a notable 10% surge in business revenue
- Leveraged advanced SQL querying techniques to navigate complex client databases on Snowflake
- Spearheaded the development of ETL processes to optimize data ingestion and transformation workflows, thereby elevating data quality standards and operational efficiency

**Finbits, Mumbai** | *Web Development, JavaScript, Node.JS*                              Jun 2020 – Aug 2020
*Software Developer Intern*

- Increased customer engagement by 23% by employing React and Redux to design multiple browser-compatible pages
- Customized software features like automatic login, pop-up chat, and navigation bar to reduce page load time
- Improved website usability by debugging code, leading to a 30% reduction in system inefficiencies
- Implemented user-centric design in collaboration with UX/UI teams, increasing conversion rates

## ACADEMIC PROJECTS

**Google Stock Price Prediction** | *Machine Learning, Tensorflow, Keras*

- Established a Recurrent Neutral Network (RNN) model with LSTM layers using Keras to predict the opening price of Google stocks based on five years of data containing opening, high, low, and closing prices, achieving 85% accuracy

**Home Credit Default Risk** | *Machine Learning, Sci-kit learn, Seaborn*

- Conducted exploratory data analysis (EDA) and applied manipulation techniques like label and one-hot encoding to prepare data for machine learning models.
- Developed baseline models using logistic regression and random forest classifiers, yielding initial ROC AUC scores for loan repayment prediction.

**Movie Recommender System** | *Machine Learning, Python, PyTorch*

- Tackled inaccurate recommendations by implementing SVD and SVD++ models on 100,000 data points, increasing accuracy by 25%.
- Improved rating predictions using Collaborative Filtering, Contextual Similarity, and KNN, reducing RMSE by 15% on the MovieLens dataset.

**DJS Arya: Canister Satellite** | *Javascript, React, Socket.io, Node.js*

- Led the development of a GUI to display real-time telemetry data from electronic sensors on a canister satellite.
- Secured 12th position worldwide and 1st nationwide at the CanSat Competition organized by the American Astronautical Society and NASA

## LEADERSHIP

- Coding head at DJS ARYA, a Canister Satellite team of Dwarkadas J. Sanghvi College (2020 – 2021)
- Infotech head at DJSCE IETE, a student chapter of Electronics and Telecommunication Engineering (2020)