Keya Shukla

Jersey City, NJ, 07306 | +1 575 295 3496 | ks6875@nyu.edu

EDUCATION

New York University, GSAS, Center for Data Science   **New York, NY**
Master of Science, Data Science   *May 2024*

National Institute of Technology, Delhi   **New Delhi, India**
Bachelor of Technology, Computer Science and Engineering   *May 2021*

TECHNICAL SKILLS

Coding Languages: Python (libraries: numpy, pandas, matplotlib, Plotly, seaborn, scikit-learn), SQL, Java, C/C++, JavaScript, HTML, CSS
Frameworks: Tableau, Tensorflow, Keras, PyTorch, Flask, Django, Git, Google Colab, Jupyter Notebooks, Microsoft Office, Google Suite, Slack

WORK EXPERIENCE

Volunteer ML Engineer **at Omdena, Pennsylvania Chapter**   **June 2021 - July 2021**

- Collaborated with 10+ engineers on an open-source project to build a predictive model that determines the success rate of startups.
- Performed exploratory data analysis using pandas, seaborn and Plotly.
- Collaborated with model building team to create models for HHI score (AdaBoost Regressor), employee growth percentage (Random Forest Regressor), final status of startup (Random Forest Classifier).

Data Analytics Intern **at JPMorgan Chase & Co.**   **August 2020 - September 2020**

- Implemented Perspective open-source code to visualize two historical stock feed correlations in a web app for users to effectively judge stock performance and identify under and over-valued stocks thereby monitoring for potential trade opportunities.
- Created a UX solution to visualize live and historic data cleanly in a single chart instead of multiple workstations, making visualization and analysis more efficient.
- Performed web-scraping in Python to help the firm download public data, including over 10,000 company descriptions and stock quotes, enriching internal data and increasing research efficiency by over 50%.

Data Science Intern **at Exposys Data Labs, Bangalore**   **July 2020 - August 2020**

- Analyzed data quality of a medium sized company for a three-month period to determine target customers that drive most value for the company.
- Performed RFM analysis in Python to analyze customer value in database and direct marketing to identify the firm's top clients based on nature of spending habits and generated insights on customer churn and renewal rates from data tables with 100M rows in SQL.
- Prepared reports interpreting customer behavior, market conditions, market results, trends, and investment levels.

Web Development Intern **at Altro Smart Inc., Pune**   **November 2019 - January 2020**

- Developed front-end of web portal interface for company's smart lock device to control lock settings, manage guest and member lists and grant access permissions.
- Collaborated with Senior Web Developer to develop the back-end of admin user interface.

ML and IoT Intern **at Bolt IoT, Bangalore**   **May 2019 - July 2019**

- Created a light intensity monitoring device using LDR sensor that collects and sends data to Bolt Cloud to determine optimum place for plants in greenhouse through a dynamic graph by using polynomial regression.
- Developed an intruder alert system for chemical storage units that detects sudden change in temperature using anomaly detection algorithm.

INDEPENDENT PROJECTS

- **Disease Detection and Diagnostic Report Generation Using Deep Learning**
  Developed a VGG-19 classifier in Python to detect the presence of among 14 diseases in a chest x-ray and integrated it with a report generation model consisting of dual LSTM and attention mechanism to perform image captioning.

- **Market Basket Analysis**
  Discovered patterns through data analysis between products and spending habits of customers in a store dataset by finding out the lift, support, and confidence scores through association rule mining Apriori Algorithm.

- **Human Activity Recognition from Smart Phone Data**
  Classified sequences of accelerometer data recorded by existing sensors in smart phones into well-defined movements, decomposed into simpler gestures and performed activity recognition using two-layer Hidden Markov model.

LEADERSHIP EXPERIENCE

President **at 180 Degrees Consulting, NIT Delhi Branch**   **May 2019 - May 2021**

- Transformed branch marketing and branding strategy through social media which resulted in a 93% boost in engagement and response scores based on reach data.
- Signed 3 startup companies and 1 NGO on projects related to marketing, fundraising, business strategy, data analysis, increasing acquisition statistics by 74% compared to previous year.
- Ranked among top performing branches in APAC region.