Aniket Singh | 205 Madison Ave, Youngstown, OH 44504 | aniketkashyyap@gmail.com | 330-891-7764 | singhaniket98.github.io

EDUCATION

Youngstown State University (YSU), Youngstown, Ohio   College of Science, Technology, Engineering & Mathematics
Bachelor of Science in **Computer Science**   Overall GPA: 3.63/4.0, Anticipated: May,2021
Minor: Mathematics, ICP Data Analytics

SKILLS

- Programming & Data Analytics Skills: Python, Java, C++, MATLAB, LaTeX, R, SAS, SQL, Excel, Tableau
- Machine Learning & Predictive Modelling: Feature Importance Analysis, Linear/Logistic Regression, KNN, K-means Clustering, Support Vector Machine, Regression Tree, Random Forest, Graph theory, Regression splines, Keras, TensorFlow.

PROJECTS

Music of Networks, COMAP, Team Math Modelling Competition   *Feb 04 -08,2021*
- Organized dataset of 147,000 observations effectively using **advanced querying, visualization and programming skills**.
- Implemented the **K-means Clustering Algorithm** to classify the artists on the basis of their similarities in musical characteristics (8 Clusters out of 19 different music styles; observed optimal cluster using **statistical techniques**)
- Used **three different directed network graphs** to analyze and quantify the influence process in music evolution.
- Model productively manifested multiple trends, changes within music style and their popularity between 1921-2020 using **timeseries analysis** and **data visualization**.

Airbnb Price Prediction, YSU   *Jan,2021 - Present*
- Processed dataset with 50,000 observations, **visualized** data to perform better analytics and conclusively find better predicting factors.
- Utilized **predictive modelling** techniques such as **Linear Regression, Ridge/Lasso Regression, and Random Forest** to develop predictive model with least RMSE and resolved problem of overfitting on test data.

Weather Pattern Recognition and Energy Consumption Optimization, YSU   *Aug,2020-Dec,2020*
- Cleaned and normalized weather data using **Pandas** package in **Python**.
- Performed **unsupervised learning** techniques (**K-Means** and **DBSCAN**) to group the data into different weather events.
- Detected weather anomalies by training **regression models** using sliding window and forward chaining on the time series data.
- Used **Numpy** to analyze the hourly energy consumption in different weathers and provided data/strategies to reduce the consumption by 20% and trained **Linear Regression Model** to predict energy consumption based on weather.

Loan Approver System, YSU   *Oct,2020-Dec,2020*
- Cleaned an unstructured training data with 20,000 records and 141 variables using Pandas on Python and **SAS studio**.
- Implemented **cluster imputation, Greenacre's method, variable clustering, and variable screening** to finalize the training data and reduced the indicators of customer's trustworthiness from 141 to 9 predictors using multiple statistical techniques.
- Built and trained a **logistic regression** model that checks whether a customer qualifies for a loan with test accuracy of 87%

WORK EXPERIENCES

Resident Assistant (RA), Residence Life, Youngstown State University   *Augst,2018-Present*
- Organized 8+ educational and social events for 30+ residents.
- Advising 7 new RA and assisting them with their responsibilities.
- Fostered development of the relationship between 30+ residents.
- Communicate, collaborate and correspond with on and off-campus offices such as counseling, student activities, campus security, planned parenthood, etc.
- Received wide-spread praise from residents and supervisor; only RA to be recognized by Division of Student Experience as an outstanding student supervisor.

Student Software Assistant, Information Technology Services, Youngstown State University   *Oct,2017- July,2018*
- Communicating complicated technical solutions to the issues of 15+ instructors and 10+ students on daily basis.

HONORS AND AWARDS

- Hirsch-Satrum Scholarship: Award Presented to an outstanding campus leader.
- COMAP 2021, Meritorious Winner (Top 3 in US [Problem D] and top 7% internationally)
- Bernadine Marinelli Memorial Scholarship: Award presented to an outstanding student supervisor in the division of student experience.
- Multicultural Leadership Scholarship: Award recognizes a minority student who has achieved academic success and demonstrated effective leadership in promoting cultural awareness to the campus and community.

Leadership Accomplishments

International Student Organization, **President**