ANIKET K. SINGH

@ aniketkashyyap@gmail.com (330) 891-7764 Youngstown OH https://singhaniket98.github.io/

EDUCATION

Youngstown State University

B.S in Computer Science

August 2017 – Present Youngstown, OH

Minor in Mathematics
GPA = 3.63
Anticipated May 2021

SKILLS

Programming & Data Analytics Skills:

Python, Java, C++, MATLAB, LaTeX, R, SAS, Power BI, SQL, TypeScript, C#, JavaScript

Frameworks:

Pandas, Numpy, Scikit-learn, Matplotlib, Keras, XGBoost, CatBoost, Random Forest, LightGBM, SHAP

Machine Learning:

Clustering and Classification, Feature Importance Analysis, Linear/Logistic Regression, Graph Theory, Predictive Modeling

Other Concepts:

Git, Unit Test, Jupyter, Angular, Django, Tablea

COURSEWORK

Probability and Statistics, Data Analytics w/ SAS, Bayesian Statistics, Data Visualization, Predictive Modeling, Discrete Structures, Data Structures and Algorithms, Automata Theory, Operating Systems, Linear Algebra, AI in Game Design, Software Engineering

EXPERIENCES

Resident Assistant

Residence Life, Youngstown State University

Aug 2018 – Present Youngstown, OH

Student Software Assistant

ITS, Youngstown State University

Sept 2017 – Aug 2018 Youngstown, OH

HONORS & AWARDS

- Hirsch-Satrum Scholarship: Award Presented to an outstanding campus leader.
- Bernadine Marinelli Memorial Scholarship: Award presented to an outstanding student supervisor in the division of student experience
- Academic Excellence Scholarship
- International Scholar Award
- International Student Scholarship

PROJECTS

Ext _2 Operating System Project

- Developed a system software that copies a Virtual Disk Image (VDI) file, in an ext2 filesystem, to a host system.
- Accessed the root directory of the passed VDI filesystem to list all files in the filesystem in UNIX's "ls" format.
- Successfully completed read/write operation without corrupting the disk image.

Weather pattern recognition and Energy consumption optimization on Machine Learning

- Performed unsupervised learning techniques (K-Means and DBSCAN) to group the data into different events.
- Performed machine learning techniques to categorize anomalies as "System Fault" or "External Event".
- Detected collective anomalies by training regression models using sliding window and forward chaining on the time series data.
- Optimized interpretability and information loss by performing dimension reduction technique (Principle Components Analysis).
- Visualized inter-dependencies of the features in the data set.
- Achieved better performance in sequence modelling using LSTM (Long Short-Term Memory).

Loan status prediction of customers using Logistic Regression

- Performed predictive modelling to predict the loan status of a customer as delinquent or not.
- The dataset included over 20,000 records and 141 attributes which was later balanced using SMOTE and Near Miss algorithm in Python.
- Confusion matrix was used to test the accuracy of model.
- Multi-collinearity condition was also tested using VIF statistics.
- The model was successfully able to predict the loan status of a customer using 11 best predictor variables with an accuracy of 84%.

Penguin Health Web Application

- Web application developed for students to track their daily health assessments.
- Analyzed the data collected from students at YSU to predict potential cases of COVID-19.
- Web-app can be used for contact tracing.

LEADERSHIP

- International Student Organization, **President**
- Summer in America, **Activity Leader**
- iPals, **VP of Membership Recruitment**