

UDIP JUNG BOHARA

501 E 38th Street, Erie, PA, 16546 • 814-881-0523 • ubohar00@lakers.mercyhurst.edu

EDUCATION

Mercyhurst University, Erie, PA, 16546

Master of Science in Data Science, candidate for December 2020 GPA: 4.00/4.00 Jan 2019 - Present

Awarded Graduate Assistantship with Full tuition waived and monthly stipend for the academic year 2019-2020

Relevant Courses: Algorithm Development, Big Data Analytics, Relational and Non-Relational Databases, Machine learning, Data Wrangling, Research Methods, Data Structures, Healthcare Analytics, Data Visualization and Research Project

Mercyhurst University, Erie, PA, 16546

Bachelor of Science in Public Health (Quantitative Track/Biostatistics) August 2013 - December 2017

Relevant Courses: Biostatistics, Social Statistics, Epidemiology I and II, Calculus I and II.

TECHNICAL SKILLS

- Relational and Non-relational Databases Modeling and Querying (SQL/SQLite, MongoDB, Cypher (Neo4j), Cassandra)
- Python (NumPy, Pandas, Matplotlib, Seaborn, Django, Dash), R, Tableau, JavaScript (jQuery, data visualization, d3.js, web scrapping), Google Data Studio, Git
- Machine Learning with Libraries: Scikit-learn, TensorFlow and Keras.
- Big Data Analytics with Cloud Computing (AWS, GCP, Azure) along with Databricks. Data Mining with Hadoop, Apache Spark, MapReduce
- Statistical and Healthcare Data Analysis with software such as Excel, SPSS, and Epi Info

PROFESSIONAL EXPERIENCE

Student Analyst

Johns Hopkins Applied Physics Lab

Feb 2019 - Present

- Work as a student participant in Johns Hopkins's Intelligence Research Projects Activity (IRPA).
- Analyze reports in simulations to develop counter factual predictions.

Graduate Research and Teaching Assistant

August 2019 – Present

Mercyhurst University, Erie, PA

- Work with faculty members of data science and cyber security in research
- Current Research Includes Development of Benchmarks for standalone PC's in Cyber Security, App Development of History data from browser (apply machine learning, data wrangling and data visualization techniques with Django, D3, Python and SQL)
- Assist professor in teaching/grading/proctoring and holding office/mentoring hours for the class CIS-200 Linear Data Structures (sections 1, 2 and 3) that consists of 70+ students

Data Scientist

Mercyhurst University, Erie, PA

May 2019 – May 2020

Analyst for Department of Institutional Effectiveness

- Work with institutional data
- Apply machine learning techniques such as SMOTE, classification algorithms to produce pragmatic solution to business problems. (Example Project: Created a machine learning classification model to predict student retention and highlight 'at-risk' students)

Academic Support and Learning Differences Graduate Employee

January 2019 – April 2020

Mercyhurst University, Erie, PA

- Assist in on-going projects in the department and come up with innovative ideas for efficacy
- Keep track of communication through the department
- Assist in data management with department of Learning Differences

PROJECTS:

- Cumulative Grade inflation Report 2008-2019: Analyzed and wrangled academic data to visualize and study the grade inflation in the last 10 years.
- Student Retention Analysis 2008-2019: Analyzed academic data of the past 10 years to produce a machine learning model that predicts retention among the students.
- Twitter Data Analysis for Decision-Making (Ongoing): Analyze twitter data and apply machine learning techniques (Natural Language Processing, Convolutional Neural Network and other Classification Algorithms) to produce a predictive model which highlights factors that affect decision making in people.

- Application Development of History data from browser (Ongoing): Analyze and wrangle history data from web-browsers to visualize it and build an interactive GUI application for inter-department students to use

REFERENCES

Andrea Barnett

Associate Provost for Academic Affairs
Mercyhurst University, Erie, PA
(814) 824-2324
abarnett@mercyhurst.edu

Dr. Chris Mansour

Assistant Professor for Computing and Information Science
Mercyhurst University, Erie, PA
(610) 348-5681
cmansour@mercyhurst.edu

Andrea Obert

Learning Differences Coordinator
Mercyhurst University, Erie, PA
(814) 824-3048
aobert@mercyhurst.edu

Dr. Afzal Upal

Chair, Department of Computing and Information Science
Mercyhurst University, Erie, PA
(814) 824-2117
mupal@mercyhurst.edu

Erica Cox

Director, Academic Support & Learning Differences
Mercyhurst University, Erie, PA
(814) 824-2360
ecox@mercyhurst.edu