

# SWAGATIKA DASH

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Work Authorization: Permanent Resident in the U.S

## EDUCATION

### MASTER'S DEGREE IN INFORMATION MANAGEMENT - DATA SCIENCE SPECIALIZATION

University of Washington, Seattle, WA

GPA: 3.93

SEP 2020 - JUN 2022

### BACHELOR'S DEGREE IN COMPUTER SCIENCE AND ENGINEERING

National Institute of Science and Technology, Odisha, India

GPA: 3.38

JUL 2007 - JUN 2011

## WORK EXPERIENCE

### JOB TITLE: SENIOR CONSULTANT EMPLOYER: ORACLE

OCT 2016 - MAR 2019

- Worked as a Project Lead for the testing team
- Involved in data mining, statistical data analysis, and modeling for high-volume financial data
- Maintained Data Quality Assurance across multiple systems
- Test Planning and Test Automation

### JOB TITLE: TEST ANALYST

#### EMPLOYER: BNP PARIBAS

APR 2015 - OCT 2016

- Collected, compiled, and analyzed raw data for reporting and checking data integrity
- Implemented and recommended preventive and corrective actions for a risk management application
- Manual and Automation Testing

### JOB TITLE: SOFTWARE ENGINEER

#### EMPLOYER: HCL TECHNOLOGIES

NOV 2011 - APR 2015

- Documented and debugged existing code and involved in software testing and reporting

## PROFESSIONAL SUMMARY

I am a data analytics and data science professional with seven years of experience in the software industry. My areas of expertise include surfing through vast amounts of diverse data to discover valuable business insights, data visualizations, data storytelling to the stakeholders, performing statistical tests, and executing regression/ classification machine learning models with touching upon some significant areas of information management like data privacy, fairness, and responsible AI. I have Computer Science and Data Science educational backgrounds that have empowered me with strong analytical, problem-solving, and interpersonal skills. Before joining my master's at the University of Washington, Seattle, I worked as a Senior Consultant at Oracle, India. I have a fair amount of leadership experience from my last role and the majority of my industry experience was spent in agile working environments.

## SKILLS

- Statistical Data Analysis using Python and R
- Data Wrangling
- Data Visualization using Seaborn, Matplotlib, R, and Tableau
- Machine Learning Models Implementation
- Natural Language Processing
- SQL
- Python and R Programming
- Analytical and Problem-solving skills
- Troubleshooting
- Azure ML Studio, Auto ML
- Agile Methodology
- JIRA

## RELEVANT COURSES

- Capstone Project ([Website](#))
- Data Science I - Theoretical Foundations
- Data Science II - Machine Learning
- Data Science III - Data Scaling and Data Ethics
- Digital Transformation using Azure ML and AI Services applying Azure ML services
- Independent Study on Fairness in ML

## RELEVANT PROJECTS

### **Project 1. Improving Detection and Alerting of Non-compliant User Behavior on the PitchBook Platform using Machine Learning**

- **Remark:** Capstone Project, **Sponsor:** PitchBook
- <https://ischool.uw.edu/capstone/projects/2022/password-sharing-conversation-starter>
- **Contributions:** Data analysis and drawing insights for anomalous data points using *seaborn* and *matplotlib*. Feature engineering, and feature significance analysis using *Scikit-learn* and *py-statistics*, implementing *DBScan-based clustering* and *SVM-based classification* for detecting anomalous events.

### **Project 2: Using Azure Machine Learning and Azure AI Services for Digital Transformation in Financial Domain**

- **Remark:** Digital Transformation using Cloud's Emerging Technologies (IMT 598)
- **Contributions:** Exploring various DX opportunities for a bank to leverage the potential of Azure cloud's AI and ML services, proposing a service for the bank through implementing a complete ML pipeline in *Azure ML Studio* and *AutoML*, and deploying the best ML model in the Azure Cloud.

### **Project 3. Exploring Data-driven Approaches to Identifying and De-biasing Occupational Stereotypes in Image Retrieval**

- **Remark:** Study on Fairness in ML (IMT600), **Supervisor:** Prof. Chirag Shah
- **Contributions:** Studying several kinds of biases in the keyword-based image search, measuring the significance of mitigating them, and proposing a fairness-aware re-ranking algorithm that optimized (a) relevance of the search results with the keyword and (b) fairness w.r.t genders identified. Used *AWS-Rekognition* and *Pytorch-based* object recognition packages implementing fairness algorithm.

### **Project 4. Recurrent Neural Network for Automatic Caption (title/headline) Generation from Scientific Abstracts**

- **Remark:** Data Scaling, Data Ethics, and Natural Language Processing (IMT 575)
- **Contributions:** Employing a sequence-to-sequence (seq2seq) framework in *Pytorch* for abstractive text summarization using LSTM-based *encoder-decoder* architecture, and evaluating the machine-generated titles against the reference titles in the dataset by measuring their semantic equivalence through *NLG evaluation* metrics like *BLEU*, *METEOR*, and *BERTScore*.

### **Project 5. Predicting World Box Office Movie Revenue using Machine-Learned Regressors**

- **Remark:** Machine Learning (IMT 574)
- **Contributions:** Exploring the statistical significance and correlations of various movie attributes, implementing various regression models for predicting the world box office revenue of films. Models implemented using *TensorFlow (Keras)* and *Scikit-learn*.