Dikshya Mohanty

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Skills and Technical Summary

Statistics and Visualization Softwares: SAS, R Studio, Tableau, SPSS, Anaconda, PostGre, Matlab, STATA, Excel
Programming Languages: Python, SQL, SAS, R, JavaScript, Java, Scala, Perl
Technical Skills: Machine Learning and AI, Deep Learning and Neural Networks, Statistics, Data Analytics, Business Intelligence, Cross-Section and Time Series Analysis, AWS
BigData Technologies: MapReduce, Spark, Hive, Hadoop
ML libraries and packages, Deep Learning Frameworks: NumPy, SciPy, Pandas, Scikit-learn, dplyr, Matplotlib, Pyplot, ggplot2, PyTorch, Caffe2, TensorFlow, Keras, Theano
Statistical Methods: Panel data analysis, forecasting, time series, hypothesis testing, classification, clustering or regression analysis
Front End Framework: Node, D3.js, React, Vue

Education

University of North Carolina, Charlotte   AUGUST 2018 – DECEMBER 2019
Masters in Data Science and Business Analytics
Relevant Courses: Business Intelligence, Deep Learning & Neural Networks, Big Data, Database Systems, Advanced Business Intelligence, Applied Machine Learning, Visual Analytics, Graduate Econometrics, Statistical Learning with Big Data, Digital Marketing and Analytics
GPA: 3.85/4.0

Indira Gandhi Institute of Technology, India   AUGUST 2012 - MAY 2016
Bachelor's of Technology in Computer Science
GPA: 4.0/4.0

Professional Experience

Applied Scientist Intern – *Amazon.com*   MAY 2019 – AUGUST 2019
- Lending Portfolio Risk Management: Analyzed the impacts of customer purchasing trends on a Seller's future success and in turn on seller's loan payment behaviors and build cascade models to handpick such 'hidden' influencers and build a Seller's Customer base, that improved the model performance by x units AUC, by coining around 200 new features from customers' shopping history data. Applied Fixed Effect Model for Panel Data Analysis.
- Built a Pipeline to evaluate the current Strategy with 'possible' strategies, using A/B testing. Methods used for evaluation were XGboost, p-value with Regularized Regression and Feature importance with Random Forest.

Research Assistant - *University of North Carolina, Charlotte*   OCTOBER 2018 - CONTINUING
- Working with Dr. Victor Chen (Belk College of Business, UNCC) and Dr. Wlodek Zadrozny (College of Computing and Informatics, UNCC) and with *Syntelli* as the business partner.
- Primary focus of research is building a Causality map between various dependent and independent variables.

Graduate Teaching Assistant - *University of North Carolina, Charlotte*   JANUARY 2019 – CONTINUING
- Appointed as the TA for Business Intelligence Analytics Class by Dr. SungJung Park (Belk College of Business, UNCC) and Big Data for Competitive Advantage Class by Dr. Gabriel Terejanu (College of Computing and Informatics, UNCC).
- My responsibilities include assisting professors in preparing the course plan and schedule, grading assignments and exams, mentoring students and conducting lab classes.

Tata Consultancy Services- *Data Science Developer*   JULY 2016 - JULY 2018
- Participated in architectural, design, and product sessions
- Developed innovative solutions based on product requirements and business challenges in both Python and R
- Researched and applied new technologies and best practices in Machine Learning including PyTorch, TensorFlow, NLTK, Spacy, Sklearn, Numpy, Scikit
- Worked in Unsupervised Natural Language Processing, Image Processing, Document Classification, Predictive Modeling
- Managed data over PostgreSQL, MongoDB and Elasticsearch

Indian Institute of Technology - *Research Intern*   MAY 2015 - OCTOBER 2015
- Developed and improved Summarization algorithms in Python, aiming to implement them on the Standard Datasets and improving the then accuracy
- Worked on extracting, categorizing and extracting and predicting user-related information

Projects and Co-curricular Involvement

- **Text Analytics of Scientific literature into a causal network**   OCTOBER 2018
  A semi-automatic text extraction and grouping of theoretical constructs and variables
  (1) Extracting performance indicators as DVs, (2) Grouping DVs by stakeholder group (and subcategories), (3) Identifying and extracting predictors, (4) Grouping predictors, (5) Linking all into a causal network using Visuals.
- **Irony Detection in Twitter Data**   AUGUST 2018
  The task of the project was to build a supervised Machine learning model to detect irony in tweets. Designed an Ensemble Model using Classical Machine learning Algorithms and Neural Networks, accuracy of 75%
- **Optimizing Human-Machine Task on Localization**   JUNE 2016
  Participated and Collaborated on a computer vision project exploring the role of human computation under the guidance of *Prof. James Davis at UC Santa Cruz*. Technologies used were OpenCV in C++, HPU and CPU tools, GIT

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