**Machhindra Basnet DATA SCIENTIST**

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Seneca, South Carolina

Data scientist candidate skilled in implementing machine learning to solve business problems. Experienced with Python, SQL, sci-kit learn, seaborn, matplotlib, and experimental design, SPSS and qualitative research software’s like NVivo, Atlas ti.

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## **Skills**

**Advanced**: Python, pandas, visualization with seaborn and matplotlib, SQL, supervised and unsupervised machine learning algorithms, Qualitative and Quantitative data analysis using software’s,

**Proficient**: Python coding, unsupervised learning, clustering algorithms, data warehousing, data mining

**Expert**: Written & verbal communication, project management, snowboarding, handling pressure, leadership, data analysis and write up, human centered design approach

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## **Recent Projects**

***Final Capstone*:** (url if applicable)

Description

***SupervisedCapstone*:**[*https://github.com/MachhindraBasnet/FeaturesforModeling/blob/master/Supervised%20Learning%20Capstone\_Final.ipynb*](https://github.com/MachhindraBasnet/FeaturesforModeling/blob/master/Supervised%20Learning%20Capstone_Final.ipynb)

* Used IBM HR Analytics Employee Attrition & Performance dataset from Kaggle, applied different predictive machine learning algorithms to choose the best model that accurately level Employee attrition

***Unsupervised Capstone*:** (url if applicable)

Description

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## **Experience**

Data Science Apprentice

Thinkful, Greater Atlanta Area

March 2019- September 2019

* Immersive Program for supervised and unsupervised machine learning, data analysis, data wrangling, deep learning, natural language processing, web scraping and data-based predictions.
* Predict Melbourne housing market prices to 97% accuracy using census population and Zillow datasets by using linear, lasso, and ridge regression models and gradient boosting.
* Predicted whether the cancer is benign or malignant with 99% accuracy using Breast Cancer Wisconsin (Diagnostic) Dataset from Kaggle. Identified the traits that are most indicative of whether an individual will be diagnosed as having malignant tumor
* Developed an algorithm to predict fraud from Credit Card fraud detection dataset that contains transactions made by credit cards in September 2013 by European cardholders. Prioritized on correctly finding fraud rather than correctly labeling non-fraudulent transactions.

Assistant Technical Specialist

Population Services International, Kathmandu, Nepal

September 2016 – August 2018

* Conducted literature review/scoping review of published and gray literatures about menstrual hygiene management (MHM) and adolescent sexual and reproductive health (ASRH), rights and development.
* Led in developing research designs, protocols and tools for research on MHM and ASRH
* Prepared research reports and briefs and disseminated through national and sub-national workshops and conferences
* Technically lead on the process of human centered design approach for design, prototype, and iteration of innovative approaches to adolescent menstrual health.

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## **Education**

Data Science Apprenticeship

Thinkful, Greater Atlanta Area

2018-2019

* Completed intensive data science program with a focus on Python, Mathematical toolsets, Statistical analysis, and big data techniques including machine learning.
* Learned industry best practices and standards by collaborating several hours every week with a senior data scientist.

Master’s in Public Health

Tribhuwan University, Kathmandu Nepal

2012-2014

* Courses included advanced Epidemiology, Biostatistics, Health System, Research Methodology, International Health
* Dissertation on ‘Prevalence and determinants of obesity among women of reproductive age in peri urban areas of Kathmandu Valley’