

# Sarbottam Thapa Magar

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## Experience

### Data Science Fellow at SharpestMinds

Dec 2020 – present

- Building a Full-Stack Data Science product that can predict a used vehicle's price based on its characteristics.
- Building serverless API for serving the model using AWS.
- Collaborating with a Senior Machine Learning Engineer at DTN.

### Research Intern

GreyLit Inc.

May 2019 – Oct 2019

Halifax, NS, Canada

Built multimedia search engine using AWS Serverless architecture.

- Developed front-end as well as back-end with serverless architecture and performed quality assurance.
- Implemented the pipeline for text extraction and indexing of documents involving different AWS services like S3 Bucket, Lambda, Elasticsearch, and AWS Machine Learning services (Comprehend, Textract, Transcription, Transcribe).
- Code review, testing and, documentation.

### Junior Android Developer

Mero Design Pvt. Ltd.

May 2016 – March 2018

Kathmandu, Nepal

Collaborate with other domain developers to analyze, design, and implement the software products according to client specification.

- Worked on 5 different major projects teaming up in a group consisting 3-4 other domain experts depending on requirements.
- Built Android Mobile Applications using Fragment API, RESTful Web Services, and other third-party libraries using Java MVC.
- Ensure Software Quality.
- Code review, testing, and documentation.

## Education

### MSc. In Computing and Data Analytics

Saint Mary's University

Aug 2018 – May 2020

Halifax, Nova Scotia, Canada

**Relevant Coursework:** Statistics & its Application in Business, Business Intelligence & Data Visualization, Data & Text Mining

### Bachelor's in Computer Engineering

Tribhuvan University

Dec 2011 – Dec 2015

Kathmandu, Nepal

**Relevant Coursework:** Object oriented programming with C++, Data Structure and Algorithms

## Projects

### House price prediction (<https://bit.ly/house-project-live>)

Used Random Forest Regressor to predict the price of the house based on important characteristics of house.

- Full-stack data science project involving Exploratory Analysis, Model Building, API Development and Deploying the model in production.
- Used different feature engineering, feature selection technique to select most important features which improved the model performance.
- Built Machine Learning Pipeline using scikit-learn pipeline architecture for automating the machine learning workflow.
- Model was served through RESTful API using Flask and later deployed as Web App in PythonAnywhere server.

### Popular Data Science Tags ([http://bit.ly/pplr\\_tags](http://bit.ly/pplr_tags))

Analyzed data from StackExchange public database to understand about the popular tags being used to post questions in the Data Science community.

- Found out Python tags was 11.17% more used than R in the community.
- Used Apriori algorithm to generate rules for tags used together in the posts.

## Profile

LinkedIn:

[www.linkedin.com/in/sarbotttam](http://www.linkedin.com/in/sarbotttam)

GitHub

<https://github.com/Mattobad/>

Tableau Profile:

[http://bit.ly/STM\\_tp](http://bit.ly/STM_tp)

## Skills

**Programming Languages:**

Python | Java

**Data Science:**

**Data Analysis** (NumPy, Pandas)

**Data Visualization** (Matplotlib, Seaborn, Plotly)

**BI tool** (Tableau)

**Supervised learning** (Linear Regression, Logistic Regression, Random Forest etc.)

**Unsupervised Learning** (Clustering, K-means)

**Deep Learning** (TensorFlow-Keras, Image Classification)

**Model Deployment** (Flask-API, TensorFlow Serving)

**Other** (Structured, Semi-structured & Unstructured data types, Time Series Analysis, Sentiment Analysis)

**Cloud:**

**AWS** (Serverless, S3, Lambda, Elasticsearch, Comprehend, AWS Machine Learning Services)

**Others:**

SQL | Bash | Docker | Git

**Operating System:**

Windows | Linux | Unix

## Awards & Achievements

**Innovation Challenge Halifax 2019, Sept-2019**

Finalist- Ocean Category

Saint Mary's University

**David Sobey's Annual Retail Hackathon, April-2019**

Saint Mary's University (Runner up)

**NS Open Data Contest, March 2019**

Dalhousie University (Second Position)