

Sarbottam Thapa Magar

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Experience

Research Intern

GreyLit Inc., Halifax, NS, Canada

May 2019 – Oct 2019

Overall Responsibilities:

- Implemented Document indexing and searching application with AWS Serverless architecture using python and Flask.
- Automated the extraction and indexing of documents using different AWS services like S3 Bucket, Lambda, Elasticsearch and AWS Machine Learning services.
- Code review, testing and, documentation

Junior Android Developer

Mero Design Pvt. Ltd. Kathmandu, Nepal

May 2016 – March 2018

Overall Responsibilities:

- 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, Halifax, Nova Scotia, Canada, B3H3 C3

Aug 2018 – May 2020

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

Bachelor's in Computer Engineering

Tribhuvan University, Kathmandu, Nepal

Dec 2011 – Dec 2015

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

Projects

House price prediction / [GitHub](#):

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

Popular Data Science Tags / [GitHub](#):

- Analyzed data from StackExchange public database to understand about the popular tags being used to post questions related to Data Science.
- Found out Python is a more popular language used as a tag in questions posted with 11.17% more than R.
- Used Apriori algorithm to generate rules for tags used together in the posts.

Image classification using Tensorflow-Keras framework / [GitHub](#):

- Built Dog-Breed classification using Transfer learning with MobileNet V2 and deployed the model as web application using docker and TensorFlow serving.

Profile

Portfolio Website:

<https://mattobad.github.io/>

GitHub

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

LinkedIn

<www.linkedin.com/in/sarbottam>

Tableau Profile:

<https://public.tableau.com/profile/sarbottam.thapa.magar#!/>

Skills

Programming Languages:

Python | Java

Data Science:

Pandas | NumPy | Scikit-learn |
Matplotlib | Seaborn | Tensorflow-
Keras | Supervised & Unsupervised
Learning

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)

Certificates:

Udemy: [The Data Science Course 2020: Complete Data Science Bootcamp](#)