Sarbottam Thapa Magar

Halifax, NS | 902-8179421 | Sarbottam.Thapa.Magar@gmail.com | www.sarbottamthapamagar.com

Experience

Data Science Fellow (http://bit.ly/vehicle_prj_live)

Dec 2020 – present

SharpestMinds

Built a Full-Stack Data Science product that can predict a used vehicle's price as point estimate as well as range based on its characteristics.

- ➤ Worked with scraped dataset from Kaggle containing "458,213 raw data points".
- ➤ Built Gradient Boosting Tree based model with a point estimation accuracy 89.52% and an MAE 2,527.49 dollars.
- ➤ Built Serverless RESTful API for serving the model with AWS.
- ➤ Collaborating through a mentorship with a Senior Machine Learning Engineer at DTN.

Research Intern

May 2019 - Oct 2019

GreyLit Inc.

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.
- ➤ Built a microservices with lambda to execute the pipeline for text extraction from different multimedia and document files using AWS Machine Learning services (Textract, Transcription, Transcribe) which uses Comprehend & Elasticsearch to index the documents stored in S3 Bucket.
- ➤ Tested the whole system with around 1GB of data consisting of different documents (images, docs, pdfs) and multimedia files (video & audio).

Junior Android Developer

May 2016 – March 2018

Mero Design Pvt. Ltd.

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.
- > Code review, testing, and documentation.

Education

MSc. In Computing and Data Analytics

Aug 2018 - May 2020

Saint Mary's University

Halifax, Nova Scotia, Canada

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

Bachelor's in Computer Engineering

Dec 2011 - Dec 2015

Tribhuvan University

Kathmandu, Nepal

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

Projects

House price prediction (http://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.
- ➤ 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)

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

GitHub

https://github.com/Mattobad/

Tableau Profile:

http://bit.ly/STM tp

Technical Skills

Programming Languages:

Python | Java | JavaScript

Data Science:

Data Analysis (NumPy, Pandas)

Data Visualization (Matplotlib, Seaborn, Plotly)

BI (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,

Serverless API)

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 Sobeys Annual Retail Hackathon, April-2019

Saint Mary's University (Runner up)

NS Open Data Contest, March 2019Dalhousie University (Second Position)