

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

May 2019 – Oct 2019

GreyLit Inc., Halifax, NS, Canada

Overall Responsibilities:

Built multimedia search engine using AWS Serverless architecture.

- Worn multiple hats from front-end, back-end, quality assurance as well as serverless developer.
- 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

May 2016 – March 2018

Mero Design Pvt. Ltd. Kathmandu, Nepal

Overall Responsibilities:

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

- Worked on five different major projects teaming up in a group consisting three-four other domain developers based on the project 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

Aug 2018 – May 2020

Saint Mary's University, Halifax, Nova Scotia, Canada, B3H3 C3

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 (<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)

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

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)