Sarbottam Thapa Magar

Halifax, NS | 902-8179421 | Sarbottam.Thapa.Magar@gmail.com | www.linkedin.com/in/sarbotttam

Experience

Research Intern May 2019 – Oct 2019
GreyLit Inc., Halifax, NS, Canada

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 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.

- 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 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 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 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 (http://bit.ly/dlp_models)

- 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:
bit.ly/STM_portfolio

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 (S3, Lambda, ElasticSearch, Comprehend, SageMaker, 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 2019
Dalhousie University (Second Position)