Sarbottam Thapa Magar

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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:
- 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 – Dec 2019
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++

Personal Projects

Image classification using Tensorflow-Keras framework /GitHub:
- Implemented Dog-Breed classification using Transfer learning with MobileNet V2 and deployed the model as web application using docker and TensorFlow serving.

Pneumonia-Detection using Tensorflow-Keras / GitHub:
- Implemented auto extraction of image files from patient DICOM files to make data ready to feed into Image classification model with optimized architecture to predict traces of pneumonia using deep learning.

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.

House price prediction / GitHub:
- Performed data cleaning and data imputation using pandas and scikit-learn.
- Used Randomforest Regressor for predicting the house price and optimized hyperparameters using RandomizedSearchCV which was able to reach score of 88.96% for the test dataset.

Profile

GitHub
https://github.com/Mattobad/

LinkedIn
www.linkedin.com/in/sarbotttam

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 | Jupyter notebook | Tableau

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)

Certificates:

Udemy: The Data Science Course 2020: Complete Data Science Bootcamp