Manish Munikar

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Education

University of Texas at Arlington , PhD in Computer ScienceCGPA : 4.02020 - 2024 (expected)Arlington, TX, USATribhuvan University, Bachelors in Computer EngineeringCGPA/Grade : 80%2013 - 2017Kathmandu, Nepal

Publications.

- M. Munikar, S. Shakya and A. Shrestha, "Fine-grained Sentiment Classification using BERT," 2019 Artificial Intelligence for Transforming Business and Society (AITB), Kathmandu, Nepal, 2019, DOI: 10.1109/AITB48515.2019.8947435
- P. Dhakal, **M. Munikar** and B. Dahal, "One-Shot Template Matching for Automatic Document Data Capture," 2019 Artificial Intelligence for Transforming Business and Society (AITB), Kathmandu, Nepal, 2019, DOI: 10.1109/AITB48515.2019.8947440

Work Experience

Cloud & Big Data Lab, UT Arlington

Arlington, TX, USA

GRADUATE RESEARCH ASSISTANT

Jan 2020 - Present

- Studied the behavior of container overlay network on Linux in great technical detail, and researched ideas to optimize its performance.
- Modified the Linux kernel source code to implement and test research ideas.

Docsumo Kathmandu, Nepal

DATA SCIENTIST

Jul 2018 - Dec 2019

- Researched and developed computer vision object-detection models (Faster R-CNN, YOLO, SSD) and rule-based engine to extract structured information from document images.
- Gained experience in all stages of data science projects: data collection and annotation, model research and development and evaluation, production-ready model deployment.
- Developed business chatbots and BI reports for international e-commerce clients.
- Developed predictive analysis systems to detect anomalies in time-series data.

Logic Information Systems

Minneapolis, MN, USA

Oct 2017 - Jun 2018

SOFTWARE DEVELOPER• Developed and optimized large-scale SQL queries for real-world retail enterprise.

- Developed business intelligence (BI) reporting using Oracle BI suite.
- Built a real-time customer sentiment analysis of tweets using IBM Watson.
- Wrote data integration scripts using big data technologies (Hadoop, Hive, Sqoop, Flume).

Skills

Computer languagesPython, SQL, C/C++, Javascript, Bash, Matlab, Java, ଔEXMachine learning librariesKeras, Tensorflow*, PyTorch, NumPy, OpenCV, Scikit-learnData science toolsMicrosoft Office, Pandas, Google BigQuery, Google Analytics

Cloud services AWS, Google Cloud, DigitalOcean

Web & database HTML, CSS, SQL, MongoDB*, ReactJS*, Django, jQuery

Notable Projects_

Docsumo ∠Jan 2019 - Dec 2019

• A product-as-a-service for extracting structured information from document images such as invoices, bank statements, W2-forms, etc. It uses a combination of object-detection models, rules engine, and template-matching engine to get an accuracy of over 90%.

Movie Review Mining and Recommendation System

Aug 2017

• A web application that analyzes movie reviews' sentiments using deep learning (RNTN) and builds a collaborative-filtering recommender system on top of it. Users provide movie reviews and get personalized movie recommendations in return. Built using Python and NumPy.

Duplicate Bug Tracker 🖸

Aug 2016

• A bug tracking system that can list possible duplicates of a bug report using natural language processing. It uses textual feature extraction using TF-IDF and logistic regression classifier to detect duplicate bug reports.

Photocrypt Photocrypt

Mar 2015

A text-to-image steganography tool that lets you encrypt/decrypt text messages in bitmap image files so that you can send/receive messages
without others' notice. It implements a modification of the Least Significant Bit (LSB) Substitution algorithm. Developed using C++, OpenCV,
otkmm

Trainings & Certifications

Convolutional Neural Networks ②, Coursera Neural Networks & Deep Learning ②, Coursera Machine Learning ②, Coursera

Database Management Essentials ♥, Coursera

Jul 2018

Apr 2018

Mar 2018

Jan 2018