

DEEKSHITA VISHWANATH K

+1-312-684-5181 deekshita.kamble@gmail.com linkedin.com/in/deekshita-kv/ github.com/DeekshitaKamble

Education

Pennsylvania State University

Master of Science in Computer Science

Aug 2020 – May 2022

Harrisburg, PA

BMS College of Engineering

Bachelor of Engineering in Information Science and Engineering

Aug 2014 – May 2018

Bengaluru, India

Relevant Coursework

- Data Structures
- Algorithms Analysis
- Artificial Intelligence
- Distributed Systems
- Software Methodology
- Database Management
- Operations Research
- Machine Learning

Technical Skills

Languages: Python, Java, C++, SQL, NoSQL, NodeJS, HTML/CSS, JavaScript

Data Science: Tensorflow, Keras, Scikit-learn, Pandas, Numpy, Natural Language Processing, Neural Network, Tableau

Technologies/Frameworks: Git, GCP, AWS, Docker, Kubernetes, Kafka, React, Jenkins, MongoDB

Certifications/Awards: Tensorflow Developer Certificate, DeepLearning.AI TensorFlow Developer Professional Certificate, Google Cloud Platform Fundamentals: Core Infrastructure, Excellence Award: Rakuten

Experience

Software Engineer

Jan 2020 – Aug 2020

Rakuten

Bengaluru, India

- Developed REST APIs for web scraping tool and data analysis for more than 600+ websites with Java. Developed code based automated data pipelines to process millions of data points.
- Set up Continuous Integration/Continuous Deployment pipeline from scratch using Jenkins and Docker. Worked on Kafka cluster setup on the QA and Production environment.
- Mentored and worked with 2 computer science interns at Rakuten.

Associate Software Engineer

June 2018 — Dec 2019

Rakuten

Bengaluru, India

- Developed web crawler using NodeJS to scrape data from Amazon, Google etc in 5+ different regions for collecting around 10^6 products in each region.
- Designed implementation plan for services provided by web crawler and managed automatic deployment and scaling using Kubernetes and Docker. Handled cookie management and proxy usage to optimize crawling. Detection in Amazon and Google captchas to retry crawling.
- Implemented SpringBoot microservices for crawl, extraction and transformation of JSON data.

Technical Intern

Jan 2018 — June 2018

Rakuten

Bengaluru, India

- Implemented Spring Boot application and designed database using MySQL for storing around 10+ services for all departments in the company.
- Built quizzer mobile app using React Native as part of a training competition and contributed to open source: Ruby Gem, isd code, OpenSource - https://rubygems.org/gems/isd_code/versions/1.0.0

Projects

Translation of American Sign Language to Text for Video Teleconferencing

Jan 2021 - April 2021

- Implemented Object detection during video teleconferencing using TensorFlow and OpenCV library. Used TensorFlow Object Detection API with Faster RCNN model for feature extraction and detection of the object in the frame. Custom data set was created with 30 hand signs with 200 images for each hand sign. Obtained an accuracy of 81.4%
- Implemented distributed processing and parallel computing on CPU/GPU for training of the Deep Learning model using GCP. Designed architectural plan for data storage and maintained dashboard for metric analysis.

Recipe Generation Using LSTM

Jan 2021 — April 2021

- Developed a deep learning model to generate recipe given raw ingredients as input using TensorFlow and Keras. Data was pre-processed by filtering out incomplete and large recipes, created vocabulary and vectorized the dataset using Keras pre-processing text Tokenizer.
- Generated new recipes using LSTM layers. Implemented callbacks to avoid overfitting.

Currency Recognition using Image Processing with Audio Output

Aug 2017 — Dec 2017

- Developed a model which helps blind people recognize denomination of the currency note using OpenCV. Hidden Markov models was used for feature extraction. Image Classification was done using supervised k-nearest neighbors (KNN) algorithm. Obtained an accuracy of 89.7%