Pragati Deepak Khekale

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EDUCATION AND HONORS

ILLINOIS INSTITUTE OF TECHNOLOGY, CHICAGO, IL (USA) *January* 2021 – December 2022

Master of Science in Data Science

Skills learned from Relevant Courses: Machine Learning, Database Organization, Big data, Statistical Learning, Project Management, Data Preparation and analysis, Probability and Statistics, Statistical Modeling, Data Mining, Predictive Modeling

PUNE INSTITUTE OF COMPUTER TECHNOLOGY, PUNE, INDIA *August* 2016 – October 2020

Bachelor of Engineering in Electronics and Telecommunication

Relevant Courses: Artificial intelligence, Data Structures, and Algorithms, Digital Image Video Processing

SKILLS

LANGUAGE: Python, R, C, C++, MATLAB, Java
CLOUD PLATFORMS: AWS, Google Cloud
DATABASE: SQL, Postgres SQL, Relational Database Management, Excel.
OS / Tools: Linux, Git, LaTeX, Bitbucket, Tableau, Hadoop
FRAMEWORKS & LIBRARIES: NumPy, OpenCV, Matplotlib, Pandas, Seaborn, TensorFlow, Keras, Scikit-Learn, PySpark

EXPERIENCE

Summer Data Scientist *May* 2022 – August 2022
CCC Solutions Chicago, IL (US)

- Worked with the Artificial Intelligence team on a project to resolve the problem of data privacy while training machine learning models. Project Management Strategy: Agile Project Management
- Successfully implemented machine unlearning model using convolutional neural network (CNN).
- Generated analytical insights through pandas and scikit-learn by sampling the dataset and testing on the same

Machine learning Intern *June* 2019 – September 2019
Visteon Corporation Pune, Maharashtra (India)

- Interned at Visteon Corporation for 3 months with the ADAS team for an interior sensing project
- Worked on Intel Open Vino CNN's - landmark detection and face detection (deployed using C++)
- Successfully implemented the PoseNet model for activity detection and optimized the same.
- Worked with Linux system, and programming languages like Python, C++, C, and on platforms like CMake.
- Also worked with the implementation of OpenMax (reducing false positives).

PROJECTS

- **PoseNet Activity Detection** *June* 2019 – *September* 2019
  - Executed activity detection algorithm for ADAS using PostNet estimation model
  - Developed the model to generate alert for user by mapping the distance between points from pose estimation model.
- **Oral Cancer Detection Using Deep Learning** *August* 2019 – *May* 2020
  - Designed oral cancer detection model using supervised learning.
  - Collected Dataset from Oncologists, hospitals, Labeled and categorized the data for data processing of the model
  - Created Supervised model based on VGG-16 architecture, later implemented the model using flask for a web application
- **OpenMax Open Set Deep Networks** *August 2021 – December2021*
  - OpenMax OSDN model achieved object detection and improved open set deep networks classifier.
  - Implemented n-classification open-set deep neural networks, with an unknown class classification.
  - Achieved data analysis of result using visualization libraries like seaborn, pandas with keras backend.
- **Analysis of multiple AWS services for machine learning model implementation** *January* 2022 – *May* 2022
  - Analyzed different services provided by AWS for implementing machine learning models Analysis using different AWS technologies (S3, EC2).
  - Designed and analyzed classifier machine learning models like: Regression, Decision Tree, SVM, Gradient Boost.
- **Machine Unlearning** *May* 2022 – August 2022
  - Constructed data privacy in SISA architecture using machine unlearning algorithms.
  - Achieved 96% accuracy on the model and analyzed the results on different machine learning models.
  - Generated comparative analysis for performance of SISA model on different shards to evaluate model in real time.