NETRA INAMDAR

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EDUCATION:

Master of Science (Computer Engineering) GPA: 3.5/4.0
Clemson University (May 2020)

Bachelor of Engineering (Electronics & Telecommunication) GPA: 3.7/4.0
CCOEW, University of Pune (May 2016)

TECHNICAL SKILLS:

Programming: Python, C, C++, PL-SQL, Embedded C, R
Operating Systems: Windows, Linux, Mac
Software & Tools: MATLAB, REST API, Swagger UI, SQLAlchemy, TensorFlow, PyMongo

RESEARCH EXPERIENCE:

Recommender Systems for Self Actualization (RSSA) (Apr 2019-Present)

- Goal: Create and evaluate a new framework for the user experience of Recommender Systems with development of prediction algorithmic features, using FunkSVD, ALS, and k-NNR
- Currently working on building a RESTful API endpoint using Python Flask and MongoDB

PROFESSIONAL WORK EXPERIENCE:

Accenture Services Pvt. Ltd. Database Engineer I (Jan 2017-July 2018)

- Performed end-to-end quality testing of several modules in pharma domains aiming 0 UAT defects
- Contributed in designing automation test scripts to enhance testing practices and reduce rework efforts by 30%, thereby improving overall execution time
- Developed inline view queries and complex SQL queries by reviewing mapping transformations
- Gained expertise in defect analysis and tracking using HP ALM & JIRA, followed agile practices

Accenture Services Pvt. Ltd. Application Development Associate (Aug 2016-Dec 2016)

- Built an interface for online banking using SQL, Oracle forms and reports
- Demonstrated the understanding of full SDLC & Oracle PL-SQL concepts

Defense R&D Organization Project Intern (June 2015-Mar 2016)

- Compared and analyzed 3 object detection techniques for feature extractions from captured images
- Implemented a robust machine learning algorithm for the detection and classification of various types of mines, with 40% increase in classification accuracy

ACADEMIC PROJECTS:

Deep Learning Models to Detect Images with Cyberbully Actions (Jan 2019-Apr 2019)

- Implemented a deep learning model for detecting cyberbully actions in a dataset of images, using TensorFlow and artificial neural networks

Design of Min. Error Classifiers using Supervised & Unsupervised Learning (Jan 2019-Apr 2019)

- Developed and optimized Bayesian classifier with 89.85% accuracy on training data
- Designed & implemented separating hyperplane algorithms: Ho-Kashyap, K-NNR, SVM, C-means clustering while enhancing the accuracy from 67% to 89.8% by using precise discriminant functions

Implementation of Minimax AI agent for the board game Quarto (Oct 2018-Dec 2018)

- Object oriented implementation of the board game Quarto in Python, using minimax algorithm
- Decreased search-space and complexity by 50% with the help of alpha-beta pruning technique

Hand Gesture controlled robot using PIC18 microcontroller (Dec 2014-Apr 2015)

- Designed and implemented robot assistance for physically handicapped by interfacing MEMS accelerometer sensor with PIC18F microcontroller, using RTOS in embedded C
- Minimized quantization error and improved tilt accuracy by 15% with the help of ADXL335
- Built a data acquisition system with Proteus & OrCAD simulation tools