HIMANSHU LONDHE

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EDUCATION

University of Maryland, Baltimore County, USA *May 2021*
Master in Computer Science [GPA: 3.8]

University of Pune, India *June 2018*
Bachelor of Engineering, Computer Science [GPA: 3.7]

SKILLS

Languages	Python, C++, C, R, Java, HTML, CSS
Librarires	NumPy, SKlearn, Apache Spark, TensorFlow, Keras, Pandas, Matplotlib, React
Web Technologies	RESTful APIs, Git, Node JS, Flask, Django
Database	MySQL, SQLite, MongoDB, Cassandra
Other	Linux/Unix Administration, Shell Scripting, AWS, Debugging, Arduino, Ghidra, Android, MPI, Network Technology, Android, ML-random forest, regression, decision trees, SVM, Naive Bayes

WORK EXPERIENCE

Software Engineer Intern | Ardent Privacy: Baltimore, MD *July 2020 - Sept 2020*

- Developed and implemented a novel machine learning framework from scratch to identify the presence of sensitive data so as to find indicators for the data minimization platform without scanning the content of the files, thereby preserving user data privacy.
- Built RESTful APIs using python and flask.
- Designed a SQLite database schema to store client server metadata of upto 50GB. Used indexing techniques to optimize database. Utilized Redis for fast access to API responses and data caching.
- Maintained code and workflow efficiently on BitBucket. Responsible for the Jira admin role for the project.
- Integrated and deployed the model successfully on Amazon EC2 web server. Deployed using AWS CI/CD tools like AWS CodeCommit, AWS CodeBuild, AWS CodeDeploy, and AWS CodePipeline.
- Monitored API health using Grafana to ensure high availability of the service.
  [Python, Flask, AWS, SQLite, sklearn, Back-end]

RESEARCH PUBLICATION *June 2018 - Dec 2018*

Paper on Enhanced Support Vector Machine with Speed Up and Reduced Sensitivity accepted and published in International Journal for Research in Applied Science and Engineering Technology (IJRASET) Volume 6 Issue XII, Dec 2018- Available at www.ijraset.com

PROJECTS

Enhanced Support Vector Machine with Speed Up and Reduced Sensitivity *Aug 2017 - Dec 2018*
Improved the classification accuracy of linear Support Vector Machines by **8-13%** by designing a data prepossessing module which reduces 'scatteredness' of the data. **[Python, sklearn, pandas, Matplotlib]**

Explainable AI for Air Quality Prediction as a Full-Stack Application *Sept 2020 - Dec 2020*
-Designed and developed a classifier for calculating Air Quality Index from the weather data with 98% accuracy and using Explainable AI to explain the results of the Classification Model.
-Took ownership of designing RESTful APIs with python and Django.
-Implemented front-end service using React, javascript and HTML CSS.
[Python, XGBoost, Regression, Multi-label, full-stack, Classification, Django, React JS]

Centralized Multi-User Concurrent Bank Account Manager *Sept 2019 - Dec 2019*
-Designed and developed a bank server that handles multiple clients and does so using distributed programming concepts.
-Devised socket programming and TCP/IP protocols to handle concurrent transaction requests.
[C++, sockets, mutexes, fault tolerance, time synchronization]

Fall Detection Classifier using CNN - Computer Vision *Feb 2020 - May 2020*
-Implemented a Concurrent Neural Network to process and classify sequences of video streams into fall/no-fall events with an accuracy of 92-95%.
-Used the dense flow tool to isolate movements in a videp sequence of input RGB images.
[Python, SKlearn, keras, tensorflow]

CERTIFICATIONS

R 101, (RP0101EN, provided by Cognitive Class) an online course on cognitiveclass.ai
C++, IIT Bombay (Spoken Tutorial).
JAVA, IIT Bombay (Spoken Tutorial).