Anantvir Singh Machine Learning Engineer



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PROFILE

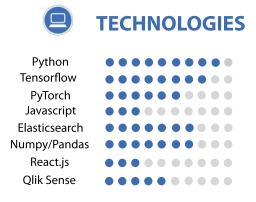
GITHUB: https://github.com/anantvir

Dedicated and resolute Machine Learning Engineer with experience using object oriented design techniques and programming languages, machine learning/data mining algorithms.

Strong team player & a clear communicator - I am adept at gaining the trust of my coworkers & working cohesively to maximize team output.

Methodical worker with the versatility to work with others or individually, to solve complex problems completely and efficiently. Results oriented with a strong desire to take projects from begining to end.

- Proficient in Data Structures, Algorithm Design and Statistical Learning Theory
- •Good theoretical and practical undertsanding of Machine Learning and Data Mining algorithms
- •Proficient in end to end design and development of Machine Learning and Deep Learning systems
- Understanding of architecture, design and development of Client-Server Web Applications and Spring MVC, N-Tier Architecture.
- Understanding of application development in **React.js** using Webpack, React-Router, Redux, Firebase.
- Understanding of core Principles and Practices in Software Engineering
- Course work Machine Learning, Data Mining, Statistical Learning, Algorithm Design and Analysis, Advanced Topics in Artificial Intelligence: Neural Networks and Deep Learning, Statistical Research Methods, Software Engineering, Computer Networks, HPC for Scientific Applications, Computer Architecture





Master of Science Computer Science

University of Delaware (May 2020)

Bachelor of Technology CGPA: 7.4/10.0

Electronics & Comm. Engineering

Guru Nanak Dev University, India (June 2014)



EXPERIENCE

University of Delaware

CMMS Administrator Assistant April 2019 - Present Environment: Qlik Sense, MS SQL Server, DB Visualizer, MS Excel

Infowiz Software Solutions, India

Software Developer July 2017 - May 2018

Environment: Java 7, Spring, Hibernate, Oracle, JavaScript

Tata Consultancy Services, India

Systems Engineer(Developer) Jan 2015 - March 2017 Environment: JEE 7, Spring core, Spring MVC, Hibernate

ACADEMIC PROJECTS

Generative & Retrieval based Conversational Models in Tensorflow *Dec* 2019 - Present

• Implementing a Dual LSTM encoder model from a publication by McGill University using Elasticsearch, Node.js.

Contributed to nltk (An open source NLP library)

Fall 2019

GPA: 3.93/4.00

•Resolved 3 bugs in a large codebase following all Soft. Engg. Principles and Practices as a project for the course

Eigenfaces: Face Recognition using PCA and Eigen Decomposition *Fall 2019*

• Using facial signatures from projecting Principal Components onto reduced Eigenvector Space

Dense Artificial Neural Network for MNIST Classification

Fall 2019

• Programmed a scalable Neural Network with vectorized mini batch backpropagation and Optimization using Stochastic GD, Conjugate Gradients, Steepest Descent

Facial Recognition using Deep Learning with Facenet and SVM Spring 2019

 Learned and implemented the concept from a published research paper by Google (Tensorflow+dlib+Python)

Detecting and Localizing Pneumonia from Chest X-ray Scans *Spring 2019*

 Classification using Keras with Tensorflow backend and Python. Implemented Localization using class Activation maps

Optimization and Parallelization of Sorting and Searching Algorithms Fall 2018

 Implemented 7 and parallelized 2 algorithms in Python and applied O1,O2,O3 optimizations in gcc resulting in approx 40% reduction in runtime

PUBLICATIONS

A comparative study of different machine learning algorithms for disease prediction

July 2017

•DOI: 10.23956/ijarcsse/V7I7/0177 ISSN: 2277-128X (Volume-7, Issue-7)