

Anantvir Singh

Machine Learning Engineer



CONTACT

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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 beginning to end.

- Proficient in Data Structures, Algorithm Design and Statistical Learning Theory
- Good theoretical and practical understanding 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



TECHNOLOGIES

Python	●●●●●●●●●●
Tensorflow	●●●●●●●●●●
PyTorch	●●●●●●●●●●
Javascript	●●●●●●●●●●
Elasticsearch	●●●●●●●●●●
Numpy/Pandas	●●●●●●●●●●
React.js	●●●●●●●●●●
Qlik Sense	●●●●●●●●●●



EDUCATION

Master of Science **GPA: 3.93/4.00**
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

- 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/ijarcse/V7I7/0177
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