

Gulshan Kr. Sharma

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EXPERIENCE

DBT- Bioinformatics Infrastructure facilities, Govt. of India

Jaipur, India

Research Trainee

Sep 2018 - Sep 2019

- **ChestX:** A computer vision model to classify diseases in Chest X-ray images
 - * Built a neural network to sample and classify 100k+ views of chest X-ray images.
 - * Increased 30% accuracy in precision compared to SVM algorithm.
 - * Reduced previous model complexity by performing feature engineering and achieved 84% accuracy
 - * Implemented post-training quantization
- **Spark Cluster:** Built a Apache Spark cluster for processing genomics data(big data)
 - * Obtained a reduction of over 50% of time of searching by using spark cluster in memory cluster computing.
 - * Designed an algorithm for searching by using multiprocessing that search nodes in phylogeny tree (1.8M nodes).
 - * Increased runtime about 100 times faster than normal algorithm
 - * Real-time computation of searching and provide low latency

CCT, University of Rajasthan

Jaipur, India

Software Engineer Intern

Apr 2017 - Aug 2017

- **Time Management System:** Time management system for professors
 - * Built a website for scheduling classes for professors
 - * Deployed on cloud, using Apache server

SKILLS

- **Languages:** Python, JavaScript, C++, Java, C
- **Libraries:** TensorFlow, Git, Keras, Scikit-Learn, Numpy, Pandas, Spark(prior knowledge),HDFS, Jupyter, CUDA, System ML
- **Databases:**SQL, MongoDB, Neo4j(graph database), MySql
- **Frameworks:** Nodejs, Flask

EDUCATION

Centre For Converging Technologies, University Of Rajasthan

Jaipur, India

Integrated Master of Technology(MS) in Information and Communication Technology/neuroscience(minor) ; GPA: 4.00/6.0 Expected Mar 2020

Relevant Coursework: Data structures and Algorithms, Network Security, Deep Learning , Machine Learning, Probability and Statistics,Artificial Intelligence, Reinforcement Learning, Applied Maths

PROJECTS

- **Pneumonia Detection using Transfer learning: Tensorflow, Python**
 - * Built a neural network that classify pneumonia in chest X-ray.
 - * Achieved 83.6% accuracy by implemented Xception compared to VGG16 and Inception neural networks.
 - * Read .dcm format file using Pydicom library.
- **Wine quality checker: Flask, Python**
 - * Deployed a web app on flask that can predict wine quality
 - * Implemented Random forest algorithm for prediction of wine quality
 - * Implemented feature engineering to obtain important features
- **RESTful API for user-authentication: Nodejs , Javascript**
 - * Built a Nodejs based API for token-based authentication system
 - * Implemented HTTP Header (Authorization) in order to allow access to protected end point API.

ADDITIONAL EXPERIENCE & ACHIEVEMENTS

- Won second place out of 50 at *MLH localhost Hackathon JECRC University 2018*
- Selected for 2 days workshop at **Indian Statistical Institute, Kolkata 2019** out of 10000 students .
- Placed 7 out of 60 at LNM hacks3.0 sponsored by Github: Campus Edition at **LNMIT, Jaipur 2018**
- Attended Microsoft Azure workshop at **IIIT ,Kota 2019**