Gulshan Kr. Sharma

gulshangaur21@gmail.com | +918302868161 | LinkedIn: gulshan- gaur-149783b6 | Github: gaulshan-gaur

Experience

DBT- Bioinformatics Infrastructure facilities ,University Of Rajasthan, Govt. Of India Jaipur, India

Research Trainee (Machine Learning) *Sep 2018 - Sep 2019*

- **ChestX**: A computer vision model to classify diseases in Chest X-ray images
  - Designed and trained a CNN using transfer learning to classify 25k+ views of chest X-ray images and test the patient is diagnosed by chest disease or not, resulting in 30% improvement in F1-score compared to SVM model, in which i include 8 common chest disease.
  - Reduced previous model complexity and achieved 84% accuracy
- **Spark**: Building a spark cluster for processing genomics data(big data)
  - I was in the team and i was responsible for creating an algorithm for searching the particular node at graph of evolution of life 1.8M nodes using multiprocessing.
  - By using of pyspark library we reduced the time of searching and use all resources.

Education

Centre For Converging Technology, University Of Rajasthan Jaipur, India

Integrated Master of Technology in Information and Communication Technology/minor neuroscience ; GPA: 3.55/6.0 *Expected Mar 2020*

Relevant Coursework: Advanced Machine Learning, Applied Artificial Intelligence, AI: Innovation & Entrepreneurship, Data Mining & Text Mining, Introduction to Data Science

Skills

- **Languages**: Python, JavaScript, C++
- **Libraries**: TensorFlow, Keras, Scikit-Learn, Numpy, Pandas, Spark(basic), Jupyter, CUDA, System ML
- **Databases**: MongoDB, Neo4j(graph database)

Projects

- **Pneumonia Detection using Transfer learning**: A transfer learning model for medical image processing
  - Building a neural network which can classify lung opacity in three classes(normal, not normal,lung opacity) of pneumonia in chest X-ray.
  - Visualizing medical image using matplotlib and pillow and achieve 83.6% accuracy in 1k test images
- **Backend API for react native app** : Building an API using nodejs and monogodb
  - Creating this API from scratch for sports based platform and target audience for this app are sports person who wants a team to play and compete.
  - Implement graph database for maintaining their social connection using neo4j graph database
- **LAMP project**: Time Table Management System
  - Creating a full stack website for time table management using apache server2.0, php , mysql,html,css as college project for scheduling classes acc.to professor and their period.

Additional Experience & Achievements

- First runner up *MLH localhost Hackathon* out of 40 teams at **JECRC university 2018**
- Placed 10/40 at LNM hacks3.0 sponsered by Github: Campus Edition at **LNMIT Jaipur 2018**