RITIK JAIN

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Junior Data Scientist with 1+ year of Work experience in projects and internships. Skilled in Machine learning, statistics, problem solving and programming.

FIELD OF INTEREST	PERSONAL PROFILE
- Deep Learning - Machine Learning - NLP - Computer Vision - Programming	**Github:** https://github.com/ritikjain51 My GitHub profile includes many repositories related to Machine Learning, Deep Learning, Probability & statistics, data structures in Python, C++ and all projects mentioned.

WORK EXPERIENCE (1+ year)

Data Science Intern – Nabler Web Solutions Pvt Ltd (Aug 2019 – Oct 2019)
- Use Markov Chain Methodology to solve digital media attribution problems from scratch as python libraries are not available for algorithm
- Implemented networkX like random walk and page rank algorithm to solve UX and navigation related Business Problem.
- Build basic Recommendation engine by incorporating concepts, cosine similarly, matrix factorization, Autoencoder.
- Built web tools for every implemented algorithms using Flask, BootStrap, JQuery, CSS and HTML for better user-experience.
- Hosted tools on AWS Elastic Beanstalk.

Research Intern – Axis India ML Research Lab (Jan 2019 – Jul 2019)
- Implemented generalized pre-processing framework for efficient transformation and reusability.
- Designed data pipelines for pre-processing, scaling and transforming raw data using scikit-learn and tensorflow.
- Design data generator for highly imbalanced data using google cloud dataprep.
- Implemented CNNs with data augmentation to improve model robustness and accuracy on testing data.
- Implemented RNNs on DNA sequencing using RNNs and keras.

Data Science Intern – Terra Economics and Analytical Lab (Jan 2019 – Apr 2019)
- Data sourcing from different static and dynamic web pages using Data scrapping techniques in python.
- Created data transformation pipelines on local server using Python.
- Created centralized database and stored standard formatted data.

Course Mentor – Coursera (May 2018 – present)
- Improving course engagement by solving queries and creative learning practices.

OTHER PROJECTS

AWS projects
- Hosted Web based application using Elastic Beanstalk
- Created rule based chatbot using AWS Lex, EC2, S3, and RDS.
- Perform POCs to create a website on serverless architecture using API gateway, Lambda, Amazon Aurora and RDS.
- Hosted website on serverless architecture using Flask & ZAPPA.

DEEP LEARNING – DC Generative Adversarial Network
- Implemented simple GANs and DC GANs on traditional datasets.

DEEP LEARNING – Pneumonia Detection using Chest X-ray (Nov 2018 – Apr 2019)
- Used 21 layered Deep Convolutional Network for detection.
- Created User Interface for interact with network.
- Used Flask for creating a web interface for the model.

Machine Learning – News Classification
- Perform text transformation and feature extraction.
- Used PCA for dimensional reduction.
- Implemented Logistic Regression from scratch

Data Analytics – Metal band exploration
- Performed data analytics and visualization on death metal dataset.
- Find link "https://www.kaggle.com/ritzjain/death-metal-exploration"

WEB DEVELOPMENT – BeSafe – Student Tracker (Mar 2018 – Apr 2018)
- Collection and decision making paradigms deployed on real time location of a student.
- Alert generated when in a dangerous area, easy access panic button embedded in the application sending out SOS with current location to parents/guardian and police.

SKILLS

Technical Skills: Python, C/C++, JAVA, PL/SQL, PostGreSQL, Regular Expression, NoSQL

Software tools & framework: Tensorflow, Jupyter Notebook, Flask, Keras
Cloud Service: AWS, GCP and Google Colab

Deep Learning and Machine Learning: CNN, Naïve Bayes Classifier (LDA, QDA and RDA), Logistic Regression with Regularization, Decision tree, Random Forest, K-Mean clustering, Association Analysis, Markov Attribution modelling and time series (AR, MA, ARMA, ARIMA)

Mathematical Skills:
Probability and statistics, Linear Algebra, Calculus and Convex Optimization.

EDUCATION

VIT University, Vellore, Tamilnadu   (CGPA 9.10)   (2017 - 2019)
- Masters of Computer Application (MCA)
- Completed project "Home Security using Raspberry Pie" for home security automation. Used Raspberry pie, FaceNet and AWS S3 and EC2.

JECRC University, Jaipur, Rajasthan   (CGPA 8.80)   (2014 – 2017)
- Bachelors of Computer Application (BCA)
- BCA training and placement coordinator
- Student Coordinator – IT Club

Laxmi Public School, Delhi   (Percentage 70%)   (2012 – 2014)
- Senior Secondary examination – Commerce
- Zonal and Inter – zonal Throwball player

CO – CURRICULUM ACTIVITIES
- Won "Chatbot Hack-a-thon" in Nabler Web Solutions
- Participated in 24 hack-a-thon "CodeSpace 2018" and developer conference in "DevSpace 2018", VIT Vellore
- Participated in Android Hackathon organised by IBM