Sahil Kumar Sahu

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"I am a computer science student so enthused to learn recently updated technology on virtualization and cloud containerization concepts. I am Looking for an internship at any stack,(preferably, research-oriented) in Cloud Computing(Kubernetes) and deep learning."

Education

C.V. Raman College of Engineering   *Bhubaneswar, Odisha*
BTECH IN COMPUTER SCIENCE   *June. 2017 - Present*
   CGPA : 8.64

Sri Chaitanya Vidya Niketan   *Visakhapatnam, Andhra Pradesh*
SENIOR SECONDARY IN SCIENCE   *May 2015 – June 2017*
   Percentage : 72.2%

Saraswati Shishu Vidya Mandir   *Berhampur, Odisha*
HIGH SCHOOL EXAMINATION   *2015*
   Percentage : 92.2%

Work Experience

C.V. Raman College of Engineering
UNDERGRADUATE RESEARCHER   *Aug. 2019 - Oct. 2019*
- Critiqued some of the most cited research papers in the domain of stock market, and performed an initial literature review to get acquainted with the various ML and DL techniques on Time Series dependent data sets.
- Multiple Experiments have conducted by developing LSTM,GRU,BLSTM,BGRU,CuDNNLSTM and CuDNNGRU models on 9 real-time benchmark stock indices of different size data sets and Comparative Evalution has done by considering each model's performance and accuracy which predict tomorrow's market price will up or down.
- I submitted this paper in Computational Intelligence which is at peer-review state.

National Institute of Technology, Rourkela
UNDERGRADUATE RESEARCHER   *Jan. 2020 - Present*
- Configuring knob across various workloads and and tunable parameters in Postgress for enhancing Autonomous Database tunning which is invented by CMU Professor Andrew Pavlo.
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Skills

Programming	C/C++, Python, JAVA, LaTeX
Cloud Computing	Kubernetes, Docker, AWS
Data Science	Deep Learning, Computer Vision, Image Processing
Database	MySQL,PostgreSQL
Big Data	Hadoop,Hive,Pig,Spark
Relevent Coursework	Data Structures and Algorithms,OOPs,Computer Networking
Android Development	Java,Kotlin,Firebase,Restful API
Languages	English, Odia, Hindi

Trainings & Certifications

Pursuing	**Certified Kubernetes Administrator (CKA),**	
Jun 2018	**Android Development,**	*Naresh IT*
Jun 2019	**HADOOP and SPARK,**	*Naresh IT*
July 2019	**Learn Devops:The Complete Kubernetes Course,**	*Udemy*
July 2019	**Apache Spark with Scala - Hands On with Big Data,**	*Udemy*
Nov 2019	**Machine Learning and Deep Learning,**	*Udemy*
Dec 2019	**Linux Security: The Complete Iptables Firewall Guide,**	*Udemy*

Cloud Technology Knowledge

- kubernetes set up with minikube,kubeadm & node architecture.
- kubernetes concepts & hands-on with k8s cluster like Master,Worker Nodes & its components like Kube-API, Scheduler, ETCD, kubelet,Kube-proxy,Container runtime,Replication controller.
- Have experince with Replicasets,deployments,updates,rollback,upgrade etc.
- Good Knowledge with services,labels,health checks,readiness probe,pod state life cycle,secrets,service discovery,Config Map,Ingress Controller,External DNS,Volumes,Autoscaling,Taints & Tolerations,Affinity & Anti-affinity as well as kubernetes administration.
- Packaging & deploying using Helm charts,serverless concepts & microservices istio.

Projects

News Application

PERSONAL PROJECT   *Jan. 2019*

- It is an Android News Application developed from scratch. I used JSON API for live news and retrofit2 as HTTP Clent - Retrofit is a REST Client for Java/Kotlin and Android.

Stream Processing of Twitter Data using Apache Spark

PERSONAL PROJECT   *Aug. 2019*

- Connected with twitter API and recieve live tweet. This model is capable of fetching chunk of streaming updated data in every One second.
- save tweets to disk such as saving streaming data to persistent storage, acessing the RDD's inside a DStream, RDD partitioning and RDD caching etc.
- Keep tracking the Most Popular Hashtags and average tweet length
- Listening to streamed data on a tcp socket and used regular expression to parse data.

Machine learning And Deep Learning Projects

PERSONAL PROJECT   *Nov. 2019*

- **Cat And Dog Classification :** This trained classifier can classify the given image into either cat or dog using Convolution Neural Network.
- **Cotton stock price prediction :** Aim of this project is to predict cotton stock price on yearly,monthly and daily basis using LSTM and GRU.
- **Analyzing Titanic disaster :** This project determine the correlation between factors such as age, sex, passenger class, fare etc. to know the chances of survival of the passengers. I used Logistic Regression to predict the survival of passengers.
- **Real time Face Recognition System :** A utility application for Face detection and Recognition using Convolution Neural Network, Haarcascade classifier and OpenCV.
- **Facial Expression Recognition System :** I Used Convolution Neural Network to train the model to recognise expressions like anger,happiness,fear etc from images

Deploy Fleet-Management System in Kubernetes

PERSONAL PROJECT   *Feb.2020 - Present*

- Deploy microservice based Application (https://github.com/DickChesterwood/k8s-fleetman) in minikube.
- Replica Sets Control, Deploy ActiveMQ as a Pod, handle network and sevice discovery and Persistence Volume Mount.
- Things are yet to there for complete - running k8s in AWS cloud,logging and monitoring k8s cluster with Prometheous and Grafana, Alert management, Handle requests and Limits and continous deploymentson k8 cluster.

Personal Information

Father's Name	Saroj Kumar Sahu
Date of Birth	13th August 1999
Permanent Address	At/Po- Brahmapur, Dist:- Ganjam, Odisha-760006
Present Address	Bhubaneswar, Odisha
Gender	Male
Nationality	Indian
Language Known	English, Hindi, Odia
Passport Details	Indian Passport No. U1380215