Siddharth Das

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EDUCATION

VSSUT
BTech in Computer Science
April 2018 | Burla, Odisha
Cum. GPA: 8.86 / 10.0

SHIV JYOTI CONVENT
Intermediate
March 2013| Kota, Rajasthan
RBSE | Percentage: 73

ST. TERESA'S SCHOOL
Matriculation
March 2011| Joda, Odisha
ICSE | Percentage: 93

COURSEWORK

DEEP LEARNING NANODEGREE
Feed Forward Neural Networks
Gradient Descent
Backpropagation
Convolutional Neural Network
Recurrent Neural Network
Generative Adversarial Network

UNDERGRADUATE
Data Structures and Algorithm
Operating Systems
Database Management System
Discrete Mathematics
Data Analysis
Soft Computing

SKILLS

PROGRAMMING
Over 5000 lines:
• Java • Python • Django • Go
Over 1000 lines:
• C • C++
Familiar:
• SQL • NoSQL • Java Script

PRODUCT DEVELOPMENT
• Microservices • Design Patterns
•RESTful services •Dockers
•Setting up CI-CD pipeline

EXPERIENCE

APTUS DATA LABS | Software Development Engineer
July 2018 - Present | Bengaluru, Karnataka

- Built vital microservices for the propagation of demand into appropriate layers in a supply network to ensure that safety stock and inventory constraints are met.
- The overall service architecture using Docker Containers and AWS stacks (including EC2, RDS, S3, SQS, AWS Lambda, CloudFront, IAM) was developed and deployed.
- The current architecture and execution flow were optimised by introducing a DFS-based design to use the current dependency and relationship between the data points and the Go routines.
- A Redis-based task scheduler framework was given, using Go, to manage tasks and implement a web socket to convey its status.
- In Go, easily configurable microservices were built to periodically fetch source data.
- A Python routine was developed for scrapping unique corporate news sites.
- A weight-based text summarizer was developed to summarise news articles as a Django app and deployed on the Nginx server.
- Built a unified platform based on SpringBoot to gather data from various API sources and send it to various destinations while enabling provisions for adding and removing data sources on the go. On the Apache Tomcat container, the application was deployed.
- A standardized approach to handling all types of API authentication formats was implemented.

APTUS DATA LABS | Software Development Engineer - Intern
May 2018 - July 2018 | Bengaluru, Karnataka

- Worked in a two-member team and developed a Text Mining component based on Python to extract texts from .csv files and generate a .docx file from the extracted texts.

PROJECTS

DEEP LEARNING | Udacity Nanodegree Program
Jan 2019 – July 2019

- Using **UCI Machine Learning Database** built a neural network from scratch to predict Bike-Sharing Patterns.
- Built a pipeline to process real-world, user-supplied images of dogs. The algorithm will identify an estimate of the canine's breed.

THUNDERSTORM PREDICTION | Dissertation
May 2017 – April 2018

- Worked with **Dr. Santosh Kumar Majhi** to analyse the historical data on thunderstorms acquired by the Indian Meteorological Department for the Odisha coastal area. Using the Support Vector Machine, Linear Regression, Logistic Regression and Random Forest algorithms, we developed a real-time thunderstorm prediction system and conducted a comparative study of the results of each algorithm.