Alay Majmudar

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EDUCATION

UNIVERSITY OF WINDSOR
Master Of Applied Computing
Expected 2020 | Windsor, On

NIRMA UNIVERSITY
BTech in Computer Engineering with Minor Specialization in Finance
May 2019 | Ahmedabad, India

LINKS

Github:// **alaymajmudar97**
LinkedIn:// **alay-majmudar-24a653115**

SKILLS

PROGRAMMING
Python • JavaScript • SQL
DATABASE SYSTEMS
MySQL • MongoDB
BIG DATA ANALYTICS
Hadoop• Map-Reduce • Spark
TOOLS AND TECHNOLOGIES
Tableau • Tensorflow • Microsoft Excel • GIT • Node.Js

COURSEWORK

- Applied Artificial Intelligence
- Data Mining
- Big Data Analytics
- Probablity | Linear Algebra
- Statistical And Numerical Analysis
- Advanced Database Topics
- Advanced Computing Concepts
- Advanced Software Engineering
- Mobile Application Development
- Project Management

CERTIFICATIONS

- Python For Data Science And Machine Learning - Udemy.com
- Complete Python Bootcamp - Udemy.com
- Complete Web Development Bootcamp - Udemy.com
- Big Data Foundations - Level 2
- Big Data Specialization by University of California San Diego

EXPERIENCE

INDIAN SPACE RESEARCH ORGANIZATION (ISRO)
Research Trainee | Project: Multi-Sensor Data Classification
Jan 2019 - May 2019 | Ahmedabad, India

- Developed a complex machine learning architecture for joint use of hyperspectral images and lidar data which improved the classification accuracy by 15%.
- Investigated the effectiveness of Support Vector Machines and Gaussian Maximum Likelihood With Leave-One-Out-Covariance Algorithm Classifiers for the analysis of complex forest species.
- Analyzed the effect of different lidar returns on classification accuracy.

INFIBEAM AVENUES
Intern | Analysis of Amul Online
May 2018 – July 2018 | Ahmedabad, India

- Applied knowledge of Data Modeling and Statistical Analysis to note trends and draw conclusions for forecasting.
- Integrated concept of Market Basket Analysis for improving the Recommendation System.

ACADEMIC PROJECTS

IDENTIFYING POTENTIAL CUSTOMERS THROUGH OBJECT DETECTION AND TWITTER October 2019 – February 2020
Computer Vision | Natural Language Processing

- Using concepts from image processing and deep learning techniques, We propose a novel approach to deal with the problem of target market identification in social media.
- Effectively retrieved, preprocessed the tweets using Tweepy API and analyzed the dataset from MongoDB using aggregation pipeline.
- Applied Mask-RCNN algorithm for object detection.

CLUSTERING OF SATELLITE IMAGES FOR DATA ANALYSIS
Space Application Centre, ISRO (India) | Research Project
January 2018 - December 2018 | Remote Sensing

- Conducted an experiment to analyse the results of DBSCAN, OPTICS, K-means, PAM and CLARANS on Data available from OCM2/MODIS Sensor for Gujarat Region for the year 2010.
- Hadoop, Map-Reduce, Spark programming paradigms were studied and implemented on 1 Master and 2 Slave Architecture.
- The results reveal that CLARANS gives better clusters as compared to DBSCAN which eliminate the small clusters considering them as outliers.

VM RENTAL CARS | Web Development focusing on MEAN STACK
August 2016 – December 2016

- Managed backend routes using Express.JS and REST API.
- Designed and managed a scalable database using MongoDB and programmed queries for several use-cases.
- Developed on AWS Cloud9 IDE and deployed on Goorm Ide server in order to design a scalable website.