Shubham Bagi

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EDUCATION

Stony Brook University

Stony Brook, New York

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Kaggle: kaggle.com/shubham1205

Master of Science in Computer Science; GPA:3.7

Aug. 2019 - Present

o Courses taken - Machine Learning, Data Science, Artificial Intelligence, Big Data Analytics, Theory of Databases;

B.V.Bhoomaraddi College of Engineering

Hubli, India

Bachelor of Engineering in Electronics and Communication; GPA:4 (9.15/10.0)

Aug. 2013 - July. 2017

Programming Skills

- Programming Languages: Python, C, SQL, Javascript, Java, C++
- Skills: Machine Learning, Data Analysis, Software Development, NLP, Big Data, Deep Learning, Statistics.
- Libraries: Pandas, Numpy, SciKit-Learn, matplotlib, Keras/TensorFlow, Pytorch, Mlib, BeautifulSoup, NLTK, Scipy, Seaborn, Plotly.
- Databases/BigData: Map-Reduce, Hadoop, Spark, DB2, MySQL, SQL Server, MongoDB, Hive
- Others AWS, REST, HTML5, CSS, Unix Scripting, OpenCV, ETL, Tableau, Oracle, XML, JIRA, Confluence, Git, MS-Office, Selenium, Splunk, Postman.

Experience

Remote Roofing

SouthLake,Texas

Machine Learning Engineer-Data Scientist Intern

May 2020 - Present

- o Architecting mining processes for data acquisition and restructuring. Working on web application in vanilla Javascript, Ajax, HTML to provide development expertise in support of new development and maintenance.
- o Implementation of Deep Learning using Mask R-CNN, MS COCO, ResNet101 to remotely inspect and assess roof damage. Identified the roof damage with an accuracy of 96.58%.

Stony Brook University

Stony Brook, New York

Teaching Assistant

Aug. 2019 - Dec 2019

• Successfully handled the **TA** duties of **250 under-graduate students** under Prof. Michael Tashbook.

Robert Bosch Engineering and Business Solutions

Bangalore, India

Associate Software Engineer

Oct 2017 - June 2019

- o Chosen to spearhead the monitoring team in Germany as Functional Safety Developer, to work closely with the Japanese Original Equipment Manufacturers like Honda, Suzuki, Hyundai and Nissan on the development of the Safety Modules using C and Python.
- o Primary responsibilities included working on various requirements like Tester Diagnostic Services, CAN frames, Cruise Control functionality, Driver Demand Requests. Delivered safety software for complex systems like Engine Control, Remote Parking Assistant, Handling Transmission and Vehicle Stability interventions.

Projects

- o Twitter Sentiment Analysis Created a data pipeline which extracts real time tweets using Twitter Stream API. Used AWS Kinesis FireHose, S3 bucket and Amazon Elastic MapReduce(EMR) to stream, store and analyse the Tweet Data. Utilized PySpark jobs to load tweets from S3.
- o Political Polarization and Marriage Performed an in-depth analysis on the census data of Florida and New York state in order to obtain insights on the impact of political party affiliation of couples on their marriages and its correlation to the divorces using Pandas, Numpy and Sklearn libraries.
- o Map-Reduce Library Implemented a Hadoop-like Map-Reduce facility, with master and worker nodes for map reduce operations over large datasets, with a distributed file system, and fault tolerance to address datanode failures.
- o Image and Video Classification using CNN and RNN techniques Successfully Classified Human actions in images and video using CNN and RNN techniques and Pytorch with an accuracy of 89.93%.
- o Recommended System Implemented a Recommended System using Item-Item Collaborative filtering method and recommendation using minhashing method (Similarity Method) using Apache Spark and HDFS.
- o Spatial Queries Analysis on Covid-19(DB2) Operated on the New York Health Information and US Census to find closest healthcare facility with ER Room for NY Counties using DB2 Spatial Databases.