Shubham Bagi

Email: shubham.bagi@stonybrook.edu www.linkedin.com/in/shubhambagi Mobile: +1-217-518-7469Website: shubham12595.github.io/ Kaggle: kaggle.com/shubham1205

EDUCATION

Stony Brook University

Stony Brook, New York

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

- Fabricating web applications in Vanilla Javascript, Jquery, Ajax, HTML in use by 30 employees, resulting in 10+ new features, reduction of 50% in save/load time and 25% operation time.
- 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

o Orchestrated 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

- Supervised a team of 4 in Germany as Functional Safety Developer, to achieve 80% reduction in testing time by developing autonomous testing software for fault management of CAN Frames.
- Executed responsibilities on various requirements like Tester Diagnostic Services, CAN frames, Cruise Control functionality, Driver Demand Requests. Remodelled the safety software for complex systems like Engine Control, Remote Parking Assistant, Handling Transmission and Vehicle Stability interventions; increased the throughput by an average of 20% and reduced customer complaints by 50%.

Projects

- o Twitter Sentiment Analysis Drafted a data pipeline which extracts 6000 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. Achieved an accuracy of 83%.
- o Political Polarization and Marriage Collaborated to analyse the 20 million census data of Florida and New York state in order to obtain insights on the impact of political party affiliation of 5 million+ couples on their marriages and its correlation to the divorces using Pandas, Numpy and Sklearn libraries.
- MapReduce Library Designed a Hadoop-like MapReduce facility, with master and worker nodes to process vast amounts of data in parallel on large clusters with 100% fault-tolerance.
- o Image and Video Classification using CNN and RNN techniques Classified Human actions in images and video using CNN and RNN techniques and Pytorch with an accuracy of 89.93%.
- Recommended System Engineered a Recommended System using Item-Item Collaborative filtering method and minhashing method(Similarity Method) using Apache Spark and HDFS to achieve an RMSE of 0.765.
- o Spatial Queries Analysis on Covid-19(DB2) Explored the New York Health Information and US Census to find closest healthcare facility with ER Room for NY Counties using DB2 Spatial Databases.