ABDULLAH MITKAR
700 Health Sciences Drive, Stony Brook, NY 11790
6317108709 | amitkar@cs.stonybrook.edu
https://www.linkedin.com/in/abdullahmitkar | https://github.com/abdullahmitkar

EDUCATION

Stony Brook University	- Masters in Computer Science	GPA: 3.8/4	**Aug 2019 – Dec 2020(Expected)**
KJ Somaiya College of Engineering	- Bachelors in Computer Engineering	GPA: 7.8/10	**Aug 2013 – May 2017**

SKILLS

Languages: Java, Python, C, Perl, Shell, JavaScript, HTML, CSS, PHP, XML, JSON, Angular
Databases and Framework: MySQL, IBM DB2, Sybase, H2, Apache Camel, Spring, Spring, Boot, Junit, MapReduce, Spark
Platform and Tools: IBM Message Queues, Jenkins, JIRA, Agile, Microservices, Slurm, Docker, Kubernetes, NodeJS, Continuous Integration and Continuous Development, Tensorflow, PyTorch, Git, BERT, Express

COURSEWORK & INTERESTS

Natural Language Processing	Computer Vision
Data Science Fundamentals	Algorithms
Probability and Statistics	Databases
Object Oriented Programming	Data Structures

WORK EXPERIENCE

Morgan Stanley **June 2017 – Aug 2019**

Consultant Software Developer, Mumbai, India [Employer: Accolite Software India Pvt. Ltd]

- Created a payment preprocessing gateway for the Post Trade Confirmations platform that decreased the memory footprint by 91% by using Streaming API for XML (StAX) parsing using object-oriented methods.
- Reduced the turnaround time for operational queries from 8 hrs. to real-time to address the operations team's queries.
- Increased productivity by 300x by automating data entry from PDF to web page by using NLP techniques.
- Saved 30 man-hours weekly by developing monitoring and automation scripts for applications developed that performed sanity checks and performed real time monitoring of applications in the QA and production environments.
- Instituted and collaborated on an application that monitors for fraudulent activities and reconciles SWIFT payments from Morgan Stanley for the Reconciliation Team and delivered several business enablement items for the Post Trade System.

PROJECTS

Publisher Subscriber System, *Javascript, Express, RESTFUL API* **July 2020**

- Created a web application that allows users to perform operations that are updated in real-time.
- Client-Server implements publisher-subscriber model to provide a real-time update to all clients by the server.
- The application is live on http://calculatorwithlogs.herokuapp.com/

Covid Data Analysis, *IBM-DB2, Hadoop, Spark, Python* **May 2020**

- Designed stored procedures, and spatial SQL queries, XML queries along with data processing on pseudo-distributed Hadoop and Spark services to generate insights from COVID-19 datasets.
- Analyzed covid data to identify pattern in weekly data and identify impact of covid on air-quality, people based on gender and impact of stay-at-home orders.
- Technologies Used: IBM-DB2, Apache Hadoop, Apache Spark, JDBC, PL-SQL, XPath, X-Query

Image and Action Recognition*, Python* **December 2019**

- Created an application that uses ML to recognize objects in pictures with ~65% accuracy using ML technique – bag of features.
- Extracted artifacts from images and identified objects with ~89% accuracy using ML techniques.
- Identified actions from a video frame by using neural network techniques an accuracy of 84.75%.

Chess Ranking Prediction and Fraud Detection, *Python* **September 2019**

- Identified the rank of a chess player and the quality of the chess player with an accuracy of 67% using game information.
- Created an application that identifies fraudulent credit card transactions using regression techniques with an accuracy of 81%.

Psychometric Test, *Java, Angular, Database* **July 2017**

- Built an application that takes psychometric test based on the Myers-Briggs Type Indicator that identifies the user's personality type.
- Based on the personality type, it suggests prospective careers from a range of 150+ career options and their salaries.

Result Repository, *Java, HTML, CSS, JS, Database* **Jun 2015 – Aug 2015**

- Improved efficiency by 12x by automating reports generation from examinations related data by using SQL queries.
- Enhanced user experience by providing a user interface for quick and hassle-free report generations.
- Removed the turnaround time for students from 1 day to real-time to view transcripts and results by providing a user interface.