

ABHISHEK SANTOSH REVADEKAR

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EDUCATION

STONY BROOK UNIVERSITY

Master of Science in Computer Science | Cumulative GPA: 3.57/4.00

Coursework: Operating Systems, Natural Language Processing, Introduction to Computer Vision, Probability & Statistics.

Stony Brook, New York

Expected Dec. 2023

UNIVERSITY OF MUMBAI

Bachelor of Technology in Computer Science | Cumulative GPA: 9.12/10.00

Coursework: Data Structures & Algorithms, Big Data Analytics, Decision Making and Business Intelligence, Software Engineering.

Mumbai, India

May 2021

WORK EXPERIENCE

BNP PARIBAS

Software Engineer – Liquidity Management Team

- Led critical feature update for On-demand Cash Pooling involving lending and borrowing limit constraints, leveraging Java-Spring Boot, SQL, Angular and UNIX jobs and increasing client satisfaction by 30%.
- Automated client report generation, cutting manual effort by 50% and improving delivery time by 35%.
- Streamlined communication and planned 2022 roadmaps for multiple cash pooling projects in China, reducing misalignment.
- Provided Level 3 support, resolving data patch requests within 1 hour on average and circumventing production failures.

Mumbai, India

Jun. 2021 – Jun. 2022

Software Development Intern – ATLAS2 Design and Development Team

- Developed Java-based data handling APIs and migration scripts for 400+ parameter tables in the JGestab application.
- Improved business rule logic in JGestab parameterization tool by analyzing COBOL code, reducing errors by 20%
- Implemented an automated testing script using Selenium-Java to evaluate business rule logic, increasing testing efficiency by 30% and identifying fail cases promptly.

Jan. 2021 – Jun. 2021

UNIVERSITY PROJECTS

DataSurge: A Distributed, Real-Time Data Pipeline

- Engineered a modular distributed real-time data pipeline, using Java-Spring Boot, Apache Kafka, Docker and Kubernetes.
- Orchestrated seamless integration of diverse data sources and flexible data model configuration, utilizing separate Kafka topics for scalability and low-latency streaming of 400 events per second and a data load of around 3 GBs per day.

May 2023 – Present

NeuroLogic Decoding using a subset of LTL semantics

- Augmented the natural language generation model by integrating Linear Temporal semantics into the Seq2Seq and beam search algorithm, inspired by Ximing Lu et al.'s NeuroLogic Decoding paper.
- Conducted a rigorous performance evaluation using BLEU scores, resulting in a significant 18% improvement in language generation compared to the implementation in the paper.
- Introduced a novel order score metric alongside coverage score to validate keyword presence and sequential arrangement, resulting in an 11% coverage improvement and 24% order improvement compared to the paper's implementation.

Sep. 2022 – Dec. 2022

Detecting attention in students based on body posture

- Designed and implemented a robust attention detection model utilizing upper body posture analysis in an e-learning environment. Achieved an impressive accuracy of 92% for identifying the five most prevalent postures when using a laptop..
- Curated a comprehensive dataset of more than 20,000 video frames from student peers, leveraging OpenPose for accurate keypoint extraction and posture analysis.
- Pioneered a groundbreaking Frame Average Sampling technique, engineered to mitigate outliers within a 1-second window for videos captured at a rate of 30 frames per second (fps).

Dec. 2020 – Mar. 2021

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML, CSS, Android, Swift, Scala, Shell scripting.

Frameworks & Libraries: Java - Spring; iOS - ARKit, CoreML; Web - React, Angular, Django.

Databases & ETL Tools: SQL, MongoDB, Hadoop, Apache Kafka, WEKA.

Machine Learning: Tensorflow, Keras, PyTorch, OpenCV, Pandas, NumPy, Matplotlib.

Development Tools: Agile, Scrum, JIRA, Git, Linux, Anaconda, Docker, Kubernetes.

OTHER ACHIEVEMENTS

Awards: "Best Paper" award for "Pothole Detection using Accelerometer and Computer Vision" at ICPSC conference, May 2021; "Best Paper Presentation" award for "Bidirectional Sign Language Translation" at ICCICT 2021 conference, June 2021.

Publications: Contributed 5 research papers in the Machine Learning space. Link: <https://tinyurl.com/AbhiR-GScholar>.