ABHISHEK SANTOSH REVADEKAR

Stony Brook, NY | +1 (934) 221-8531 | arevadekar@cs.stonybrook.edu
LinkedIn: https://www.linkedin.com/in/abhishek-revadekar | Github: https://github.com/Abhishek-612

EDUCATION

STONY BROOK UNIVERSITY   Stony Brook, New York
Master of Science in Computer Science **|** Cumulative GPA: 3.57/4.00   **Expected Dec. 2023**
Coursework: Operating Systems, Natural Language Processing, Introduction to Computer Vision, Probability & Statistics.

UNIVERSITY OF MUMBAI   Mumbai, India
Bachelor of Technology in Computer Science **|** Cumulative GPA: 9.12/10.00   **May 2021**
Coursework: Data Structures & Algorithms, Big Data Analytics, Decision Making and Business Intelligence, Artificial Intelligence and Soft Computing, Software Engineering.

WORK EXPERIENCE

BNP PARIBAS   Mumbai, India
Associate Software Engineer – Liquidity Management Team   **Jun. 2021 – Jun. 2022**
- 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.

Software Development Intern – ATLAS2 Design and Development Team   **Jan. 2021 – Jun. 2021**
- Developed Java-based data handling APIs and migration scripts for 400+ parameter tables in the JGestab application.
- Improved business rule logic in the JGestab parameterization tool by analyzing legacy COBOL code, resulting in a 20% reduction in errors.
- Implemented an automated testing script using Selenium-Java to evaluate business rule logic, increasing testing efficiency by 30% and identifying fail cases promptly.

UNIVERSITY PROJECTS

NeuroLogic Decoding using a subset of LTL semantics   **Sep. 2022 – Dec. 2022**
- 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.

Detecting attention in students based on body posture   **Dec. 2020 – Mar. 2021**
- 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).

TECHNICAL SKILLS

Languages & Frameworks: Java, Python, C/C++, JavaScript, HTML, CSS, SQL, MongoDB, Hadoop, Django, React, Spring.
Tools & Libraries: Tensorflow, Keras, PyTorch, Pandas, NumPy, Matplotlib, OpenCV, NLTK, CoreML, WEKA, Git, Agile.

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.
- **Teaching:** Mentoring sessions on "Understanding data for Machine Learning applications", C workshop, Teaching Assistant for Digital Intelligence, Data Warehousing & Mining, Database Management.
- **Extracurriculars:** Dance Instructor, Vice Chairperson of Oculus 2020 (College festival), Beach Cleaning Volunteer; Organized for a fundraiser for Cancer Patients Aid Association and raised ₹18,000 apart from 1500 clothing items.