RISHABH SRIVASTAVA

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Education

Columbia University   New York, NY
MS in Computer Science (Machine Learning Track)   Expected Dec 2024
Relevant Courses: High-Performance ML, Natural Language Processing, Machine Learning, Databases
TA for: Topics in Software Engineering, Advanced Software Engineering

Indian Institute of Technology Guwahati   Assam, IN
BTech in Electronics and Electrical Engineering, Minor in Computer Science   Jul 2021
Relevant Courses: Computer Vision, Probability, Data Structures and Algorithms
Recipient of **Samsung Fellowship Award**

Technical Skills

Languages: Python, C++, Java, MySQL, MongoDB, React, NodeJS, TypeScript
Technologies: CUDA, PyTorch, OpenCV, TensorFlow, GCP, Kubernetes, Docker

Work Experience

Rubicon Robotics, Columbia Build Lab   New York, NY
Software Engineer   Jan 2024 – *Present*
- Responsible for implementing CV algorithms for **SwimBot**, enhancing swimmer detection and performance analysis.
- Utilized **Django** backend to interface with **AWS RDS** on EC2, coupled with **React** frontend for optimal performance.

Adobe Inc.   Noida, IN
Software Development Engineer Level II   Jul 2021 – Aug 2023
- Contributed to **Adobe Experience Manager (AEM) Assets**, facilitating seamless asset lifecycle management.
- Leveraged **Sling**, **Apache Jackrabbit Oak** and **OSGi** frameworks to optimize performance and enhance workflow efficiency.
- Solved **30+** localization, accessibility and vulnerability issues, fortifying the platform's resilience and reliability.
- Volunteered as the DevOps Champion, managed and maintained the CI/CD pipeline deployed on **Jenkins** to enable seamless integration and delivery of code changes.
- Spearheaded enhancement of AEM Assets Search by utilizing **Lucene indexing** for efficient information retrieval, Hugging Face's **BLIP** (Bootstrapping Language-Image Pre-training) APIs for asset auto-captioning and **GPT-4** for query pre-processing.
- Led end-to-end implementation of Smart Tags Block-list in AEM Assets Essentials, empowering users to manage and block inappropriate smart tags for assets, ensuring content appropriateness and user control.
- Enhanced the search functionality of AEM Assets Essentials by integrating Adobe Firefly during Adobe's Generative AI Hackathon, selected to be presented at **Adobe EMEA Summit 2023**.

Internships

Adobe Inc.   Noida, IN
Media and Data Science Research Intern   Apr 2020 – Jul 2020
- Conceptualised a new Reinforcement Learning-based algorithm to extract top relevant patterns from temporal, sequential data.
- Trained **Deep Q-Network** using **TF-Agents** and extracted patterns ranked by **user-specified measure of interest**.
- Proposed algorithm allowed monitoring and improving user-targeting based on certain Key Performance Indicators.

Hanyang University   Ansan, KR
Research Intern   May 2019 – Jul 2019
- Designed a new algorithm **Adaptive Shadowed C-Means** (ASCM), to cluster data using **fuzzy** and **shadowed sets**.
- Reduced impact of noise in clustering by keeping outliers concentrated in shadow region.
- Implemented algorithm in MATLAB on **Iris data set** and **Breast Cancer Wisconsin data set**, and demonstrated its use for image segmentation.

Projects

Expense Management Software | *Java, PostgreSQL, React, Redux, Cypress* | Sep 2021
GitHub: RishabhS66/Expense-Management-Software-React-App
- Built a web application to provide an automated solution to record and report business expenses. Features also include approving or rejecting expense claims filed by a user.

Codeforces Problem Recommender | *HTML, CSS, JavaScript* | Aug 2020
GitHub: RishabhS66/Codeforces-Problem-Recommender
- Built a website that analyzes Codeforces users and recommends problems according to their statistics.