RISHABH SRIVASTAVA

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Education

Columbia University   New York, NY
MS in Computer Science   Expected Dec 2024
Courses: Machine Learning, Natural Language Processing, Algorithms

Indian Institute of Technology Guwahati   Assam, IN
BTech in Electronics and Electrical Engineering, Minor in Computer Science   Jul 2017
Recipient of Samsung Fellowship Award, GPA: 8.82/10
Courses: Data Structures, Probability, Computer Vision

Research Interests

Machine Learning, Computer Vision, Reinforcement Learning

Experience

Adobe Systems India Pvt. Ltd.   Noida, IN
Software Development Engineer 2   Jul 2021 – Aug 2023
- Mentored interns on enhancing AEM Assets Search via integration of **BLIP (Bootstrapping Language-Image Pre-training)** model 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. Users can block smart tags considered inappropriate for an asset and maintain a list of such tags to be blocked for all assets.
- Integrated state-of-the-art **CLIP (Contrastive Language-Image Pre-Training)** based model with AEM Assets' automatic tagging service, improving relevance and preciseness of generic smart tags by **75-90%**.
- Served as **Single Point-of-Contact** for **Smart Content Services** (SCS) in AEM Assets.
- Solved **30+** localization, accessibility an vulnerability issues.
- Leveraged **Sling**, **Apache Jackrabbit Oak** and **OSGi** frameworks to optimize performance and enhance workflow efficiency.
- Contributed as an integral member of the **Adobe Experience Manager (AEM) Assets** team, driving asset lifecycle from inception to distribution seamlessly.

Indian Institute of Technology Guwahati   Assam, IN
Undergraduate Researcher   Aug 2020 – Apr 2021
- Proposed a novel architecture called **Unrolled DRAGAN** (Deep Regret Analytic Generative Adversarial Network), skillfully merging unrolling into DRAGAN to mitigate mode collapse.
- Obtained higher inception scores and reduction in mode collapse for MNIST data set, when compared to Vanilla GAN and DRAGAN architectures.

Adobe Systems India Pvt. Ltd.   Noida, IN
Media and Data Science Research Intern   Apr 2020 – Jul 2020
- Conceptualised and implemented a new Reinforcement Learning-based algorithm to extract top relevant patterns from temporal, sequential data sets.
- Trained **Deep Q-Network** employing **TF-Agents** and extracted patterns ranked according to **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
- Developed and designed a new algorithm, termed **Adaptive Shadowed C-Means** (ASCM), to cluster data sets 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 performed image segmentation on various sample images.

Technical Skills

Languages: C, C++, Python, Java, MATLAB, HTML/CSS, JavaScript, React, PostgreSQL, mySQL
Technologies/Frameworks: Windows, Linux, GitHub, TensorFlow, PyTorch
Miscellaneous: LaTeX, Arduino, ArcGIS

Accolades

- **Samsung Fellowship Award**: Was granted fellowship by Samsung with an objective for promoting research, for my B.Tech. Project on GANs.
- **Department Rank 3**: Achieved **rank 3/47** in the department for overall academic performance.
- **Rani Laxmi Bai Award for Meritorious Students 2017**: Was felicitated by Chief Minister, Uttar Pradesh for securing **5th** rank in the State, amongst **100,000+** students in CBSE Senior Secondary Examinations.
- **Dhirubhai Ambani Scholarship Programme 2017:** Qualified for the scholarship by Reliance Foundation by securing a rank in the merit list of Standard 12th Board Examinations.
- **Certificate of Merit**: Awarded by the Government of India for outstanding performance in **Computer Science** and **English**, being amongst the top **0.1%** scorers in CBSE Boards 2017 in the entire country.
- **SRMJEEE 2017 Rank 5**: Secured **5th** rank amongst **150,000+** students that appeared for SRM Institute of Science and Technology's Joint Engineering Entrance Examination in 2017.
- **National Talent Search Examination 2015**: Qualified NTSE stage 1 and secured **6th** position in the state of Himachal Pradesh.

Positions of Responsibility

Project Head, Electronics Club, IITG: Responsible for constant ideation of innovative projects, guiding juniors in club projects and administrative management of club.

Mentor, Saathi Counselling Cell, IITG: Mentored freshmen and helped them become acclimatized with academic and other institute activities.

Technothlon City representative, Jabalpur, 2018: Conducted Technothlon examination, managed by students of IITG , in Jabalpur, Madhya Pradesh.

Extra-curricular

CodeChef October Challenge 2020 (Division 2): Achieved **rank 661** amongst **20,000+** participants globally.

Flipkart Grid 2.0: Shortlisted amongst **130** from **8,000+** teams for **Round 3** of Flipkart Software Development Challenge.

Publicis Sapient Jumpstart 2020: Achieved **rank 379** amongst **2,000** participants.

Spardha 2018: Secured 4th position in inter-hostel sports competition for Squash.