Company :	**Adobe**
Company Name :	**Adobe**
Nature Of Business :	**Product**
Designation :	**MDSR Intern**
Tentative Job Location :	Bangalore / Remote

Media and Data Science Research Labs
Digital Experience Cloud
Adobe India
dobe Digital Experience Cloud's mission is to transform how
businesses compete. We offer a collection of best-in-class
solutions for marketing, analytics, advertising and commerce,
integrated on a cloud platform. We manage over 233 trillion
transactions per year and handle over 35 petabytes of data every
quarter.
At the Media and Data Science Research (MDSR) labs, we work on
fundamental and applied research problems relevant to the
Experience Cloud. Our research focus spans Computer Vision, Natural
Language Understanding and Data Science, often in an
interdisciplinary manner. We also work on foundational questions
related to AI and deep mathematical areas.
All intern projects at Adobe India
MDSR are expected to make a
novel contribution to a research
area and result in a publication or
patent applications. A patent filing
carries a significant monetary reward (Patent bonus for a single patent at
Adobe is USD 7000). The lab has over 150 filed patents.
We have published research papers with our interns at some of the most
prestigious conferences in Machine Learning, Artificial Intelligence,
Computer Vision and Natural Language understanding. Some recent
publications are listed in the next page.
Many of our projects culminate into features for Adobe products. Here are a few
contributions over the last 2
years that have made it to the news:
We are looking to hire people with a passion for science and
technology, especially, Computer Vision, Machine Learning, Natural
Language Understanding, Data science or Mathematics for research
internships with the MDSR, Noida team. Contact us at
kbalaji@adobe.com if you are interested.
A
We are hiring!
Requirements:
• Pursuing BTech/ MS/PhD in Computer
Science/Mathematics or related fields
• Excellent computer science
fundamentals
Nice to have:
• Experience with Tensorflow, Pytorch,
and/or
• Experience with Spark, large scale data
processing.
Contact: kbalaji@adobe.com
• ProjectClothesSwap – Image Based Virtual Try On
• ProjectBonVoyage – Live Journey Insights
• ShapeVis- Topological Data Analysis for Audience Segmentation AI
• Document Image Segmentation in
Adobe Experience Manager Forms
• Currency Optimization
• Product Recommendations and
Media and Data Science Research Labs
Digital Experience Cloud
Adobe India

Description :

Selected Recent Publications
Intern contributors starred and in bold
• Attributional Robustness Training using Input-Gradient Spatial Alignment
Mayank Singh, Nupur
Kumari, Puneet Mangla*, Abhishek Sinha, Vineeth N Balasubramanian, Balaji
Krishnamurthy
(ECCV 2020)

- **Retrospective Loss: Looking Back to Improve Training of Deep Neural Networks** Surgan Jandial*, Ayush Chopra, Mausoom Sarkar, Piyush Gupta, Balaji Krishnamurthy, Vineeth Balasubramanian (KDD 2020)
- **Document Structure Extraction using Prior based High Resolution Hierarchical Semantic Segmentation** Mausoom Sarkar, Milan Aggarwal, Arneh Jain, Hiresh Gupta, and Balaji Krishnamurthy (ECCV 2020)
- **SimPropNet: Improved Similarity Propagation for Few-shot Image Segmentation,** Siddhartha Gairola*, Mayur Hemani, Ayush Chopra, Balaji Krishnamurthy, (IJCAI 2020)
- **Explain Your Move: Understanding Agent Actions Using Specific and Relevant Feature Attribution,** Nikaash Puri, Sukriti Verma, Piyush Gupta, Dhruv Kayastha*, Shripad Deshmukh*, Balaji Krishnamurthy, Sameer Singh (ICLR 2020)
- **ShapeVis: High-dimensional Data Visualization at Scale,** Nupur Kumari, Siddarth R., Akash Rupela, Piyush Gupta, Balaji Krishnamurthy (WWW 2020)
- **SieveNet: A Unified Framework for Robust Image-based Virtual Try-On** Ayush Chopra, Surgan Jandial*, Kumar Ayush, Mayur Hemani, Balaji K. (WACV 2020)
- **Towards A Unified Framework for Visual Compatibility Prediction,** Ayush Chopra, Kumar Ayush, Anirudh Singhal*, Utkarsh Patel*, Balaji K. (WACV 2020)
- **Charting the Right Manifold: Manifold Mixup for Few-shot Learning.** Puneet Mangla*, Nupur Kumari, Mayank Singh, Abhishek Sinha, Balaji Krishnamurthy, V N Balasubramaniam. (WACV 2020)
- **Multi-Modal Association based Grouping for Form Structure Extraction,** Milan Aggarwal, Mausoom Sarkar, Hiresh Gupta*, Balaji Krishnamurthy (WACV 2020)
- **Powering Robust Fashion Retrieval with Information Rich Feature Embeddings** Ayush Chopra, Abhishek Sinha, Mausoom Sarkar, Hiresh Gupta*, Kumar Ayush, Balaji K. International Conference on Computer Vision and Pattern Recognition 2019 Workshops CVPRW 2019 Best Paper Award.
- **OpticalGAN : Generative Adversarial Networks for Continuous Variable Quantum Computation,** Nilay Shrivastava*, Nikaash Puri, Piyush Gupta, Balaji Krishnamurthy, Sukriti Verma (QTML 2019)
- **Harnessing the Vulnerability of Latent Layers in Adversarially Trained Models,** Mayank Singh, Abhishek Sinha, Nupur Kumari, Harshitha Machiraju, Balaji Krishnamurthy, Vineeth N Balasubramanian, (IJCAI 2019)

Eligibilty :

Program	AE	BS	BE	CE	CHE	CSE	EE	ES	ME	MSE	PHY	CHM	MTH	ECO	DES	IME	HSS
BT-BS	No	No	No	No	No	Yes	Yes	No	No	No	No	No	Yes	No	--	--	--
MT	No	No	No	No	No	No	No	No	No	--	--	--	--	--	--	No	--
DoubleMajor	No	No	No	No	No	Yes	Yes	No	No	No	No	No	Yes	No	--	--	--
dual	No	No	No	No	No	Yes	Yes	No	No	No	No	No	Yes	No	--	--	--
dualB	No	No	No	No	No	--	--	--	No	No	No	No	No	No	--	No	--
dualC	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	No	--
Mdes	--	--	--	--	--	--	--	--	--	--	--	--	--	--	No	--	--
MBA	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	No	--
Phd	No	No	No	No	No	No	No	No	No	No	No	No	No	No	--	--	No
Msc	--	--	--	--	--	--	--	--	--	--	No	No	Yes	No	--	--	--
MSR	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Stipend per month : 100000

Other Facilities Offered : .

Bond : False

CPI CutOff : 0.0

Medical Requirments :

Resume Shortlist :	**True**
Resume Shortlist Criteria:	**screening**
Aptitude Test:	**False**
Group Discussion:	**False**
Technical Test:	**True**
Technical Test Duration:	**N/A**
Technical Interview:	**True**
Technical Interview Duration:	**N/A**
Number of Techincal Interview Rounds:	**1**
HR Interview:	**False**

Additional Information: