

# Palash Chauhan

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## EDUCATION

### UC, SAN DIEGO

#### MS IN COMPUTER SCIENCE

Expected Jun 2021 | La Jolla, CA  
Cum. GPA: N/A

### IIT KANPUR

#### BTECH IN COMPUTER SCIENCE

2017 | Kanpur, India

## COURSEWORK

### GRADUATE

Graduate Databases\*  
Recommender Systems\*  
Graduate Networked Systems\*

### UNDERGRADUATE

Bayesian Machine Learning  
Deep Learning for Computer Vision  
Natural Language Processing  
Machine Learning Techniques  
Computer Architecture  
Compiler Design  
Operating Systems  
Advanced Algorithms  
Data Structures  
Probability and Statistics

### MOOCS

Deployment of Machine Learning Models  
Functional Programming in Scala  
Concurrent Programming in Java  
Distributed Programming in Java  
Hadoop Application Framework  
Deep Learning Specialization

## SKILLS

### LANGUAGES

Python • Java • Scala  
Go • C • C++ • Shell

### ML

Tensorflow • Keras • PyTorch  
scikit-learn • OpenCV

### BIG DATA SYSTEMS

Hadoop • Kafka • Spark  
Druid • Presto

### WEB

AngularJS • Spring MVC • HTML  
CSS • JavaScript

### OTHERS

Spring Boot • Hibernate • Docker

## EXPERIENCE

### ADOBE INC | MEMBER OF TECHNICAL STAFF, ADOBE MEDIA OPTIMIZER

Jul 2017 – Aug 2019 | Bengaluru, India

- Designed and implemented a cross-datacenter data pipeline for near real-time search advertising attribution using Spring-Kafka, Adobe Experience Platform Kafka Pipeline, Adobe Identity Service and Adobe Unified Profile Service reducing the attribution latency from 1 hour to almost 10 minutes.
- Designed and implemented a data pipeline for search advertising keywords performance data using Hadoop, Postgres, Spark and Presto to enable concurrency in building keyword level click models. Also evaluated Druid for the same.
- Extended the AMO back-end framework for high volume and time sensitive data synchronization between AMO infrastructure and the Pinterest Ad Platform.

### ADOBE BIG DATA EXPERIENCE LAB | RESEARCH INTERN

May 2016 – Jul 2016 | Bengaluru, India

- Analyzed topical behaviour of users when interacting with complicated Adobe apps like Photoshop and Illustrator.
- Using a document-word analogy for user sessions and actions, modelled user data using topic models like Latent Dirichlet Allocation and its extensions.
- Used extracted topics to predict user's intended work-flow and built a recommender system based on the topic transitions to surface contextual guidance within the app.
- Integrated the model and a prediction pipeline within Adobe Illustrator and presented a live demo. A patent in under review at the USPTO.

### MONET NETWORKS | SOFTWARE DEVELOPMENT INTERN

May 2015 – Jun 2015 | Gurgaon, India

- Developed new engagement metrics like peak-end ratio for non verbal cues analytics and integrated them within Monet.
- Implemented a Collaborative Filtering based video recommendation system within Monet's platform to improve user experience.
- Enhanced Monet's non-verbal cues analytics platform using web development in PHP, MySQL and JavaScript.

## SELECTED PROJECTS

### MALWARE DETECTION USING NEURAL NETWORKS

Feb 2017 | National University of Singapore

- Experimented with various deep learning architectures like LSTMs, CNNs and Auto Encoders to detect malware in portable executable binaries.
- Project won 3rd prize at a hackathon conducted by 2nd Singapore Cybersecurity R&D Conference at NUS.

### AUTOMATIC ABSTRACT GENERATION FOR RESEARCH PAPERS

Aug 2016 - Nov 2016 | IIT Kanpur

- Used a combination of Extractive and Abstractive summarization techniques to generate summaries for long documents like research papers.
- Used Topic Models, TextRank and Latent Semantic Analysis to extract important sentences which were fed into an RNN encoder-decoder network.
- The model was trained on a dataset of NIPS research papers and evaluated using the ROUGE metric