

Academic Details

SEPT'17 - PRESENT BS from **New York University** in **Computer Science and Engineering** — GPA: 3.8/4
- DEAN'S LIST FALL'17 - SPRING'18

JULY'15 - MAY'17 Matriculated from **Indian Institute of Technology, Delhi** in
Biochemical Engineering and Biotechnology — GPA: 8.1/10

Internships and Projects

Feed Ads Quality Team, Facebook Inc., Menlo Park, CA
Software Engineering Intern

May 2018 - Aug 2018

- Worked to improve the post-click experience for news feed ads, which receives roughly 300 million clicks everyday.
- Introduced new offline data pipelines for machine learning models that lowered the system workload and query latency time by 60%.
- Migrated the currently used machine learning models to a new architecture, which increased the business top level metrics by 3% and reduced the model's memory usage by 50%.
- Served the new models in Facebook Ads Ranking Infra system and introduced a new bid in the Facebook Ads Auction system.
- Worked on feature selection and proposed a novel method to utilize the user survey data for improving the post-click feed ads experience.

The Go Game, San Francisco, CA
Deep Learning Intern

June 2017 - July 2017

- Worked on a deep learning framework to count the number of human faces in a given image, which was used to manage and verify the working of remote offices of the company.
- Worked on a deep learning model to accommodate for different human poses and used it for image segmentation.
- Developed an image search system using image captioning models and an inverted image index to give all the pictures corresponding to a word query.

Interactive Digital Video Montage
IIT Delhi Independent Project

Prof. Subhashis Banerjee
Oct. 2016 - Dec. 2016

- Implemented the baseline papers: Interactive Digital Photomontage (Aseem Agrawala et al.) and Fast Approximate Energy Minimization via Graph Cuts (Boykov et al.).
- Worked on a computer assisted framework for combining parts of a set of photographs into a single composite picture using techniques such as: Graph-cut optimization and gradient domain fusion.
- Worked on extending the idea of photo montage across frames in multiple videos to generate a new video.

Gateway for connecting IoT devices to Internet
IIT Indore Winter Internship

Prof. Abhishek Srivastava
Dec. 2016 - Jan. 2017

- Developed a technology agnostic gateway for connecting the proprietary technology driven IoT devices to the standard technology of the Internet
- Implemented RESTful APIs for converting the proprietary MTUs to MTUs comprehensible to the IP protocol.
- Designed a Java application with URIs so that it is exposed over RESTful APIs.

Relevant Courses and Technical Skills

Algorithms, Computer Architecture, Computer Networking, Discrete Mathematics, Machine Learning[†], Computer Vision[†], CNNs for Visual Recognition[†], Numerical Optimization*, Operating System*, Artificial Intelligence*, Linear Algebra, Differential Equations

*To be completed by Fall'18, [†] MOOCS

- **Programming Languages and Frameworks:** C++, Python, Java, C, Tensorflow, Keras, MySQL