

# AISHWARYA MITTAL

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## AREAS OF INTEREST:

Full Stack Development, AI & Machine Learning, Data Science.

## EDUCATION:

### Bachelor of Technology

Indian Institute of Technology Roorkee (July 2014 – May 2018)

Major in Electrical Engineering with minor specialization in Computer Science and Engineering

CGPA: 9.473/10.0

## EXPERIENCE:

### Adobe Systems, Noida

Member of Technical Staff – II (Feb 2020 - Present)

Member of Technical Staff – I (July 2018 – Feb 2020)

#### Adobe Print Value Added Services

- Implemented multiple Machine Learning and Computer Vision based features such as Shadow Removal, Obstruction and Marks Removal, Page De-skewing, Page Dewarping using CNN based Deep Learning models in TensorFlow and OpenCV.
- Performed memory and performance optimizations to reduce the processing time and ram usage.
- The features implemented greatly improved the final output while scanning a document using mobile camera or scanner.

#### Adobe Embedded Print Engine (AEPE)

- Added support for multiple image formats such as JPG, PNG, BMP and TIFF for input to RIP.
- Fixed numerous issues related to print quality, memory leaks, hangs and crashes and greatly improved the overall stability.

#### Adobe Textile Designer (ATD)

- Implemented multiple user interface features using *Angular JS* such as live preview for the artwork and multiple colorways.
- Handled the communication between the extension (*Angular JS* based user interface) and plugin (*C++* based backend) using *RxJS* event management and photoshop SDK.

### Adobe Research Lab, Bangalore

Research Intern (May 2017 – July 2017)

- Worked on a project which is focused on evaluating the concepts of Multi-Task Learning (MTL) on web analytics data using Deep Neural Networks.
- Constructed the compact customer profile which can be used for clustering and look alike modelling.

### Probzip Business Solutions Pvt. Ltd., New Delhi

Web Development Intern (May 2016 – June 2016)

- Worked on the front-end development of website by adding multiple features such as product details page, menu bar, product preview etc. primarily using *AngularJS*, *CSS*, and *HTML*.

## PROFESSIONAL ENHANCEMENTS:

- Deep-Learning specialization by *Deeplearning.ai*. ([Certificate](#))
- Machine Learning by *Stanford University*. ([Certificate](#))

## TECHNICAL SKILLS:

**Computer languages:** C/C++, Python, HTML, CSS, JavaScript, MATLAB, SQL, Bash Scripting,

**Software Packages & Tools:** Visual Studio, VS Code, XCode, CMake, Perforce, GitHub, Unity 3D, Adobe Creative Cloud.

**Libraries:** OpenCV, TensorFlow, NumPy, Pandas, Scikit-Learn, PyQt, Matplotlib

**Web Frameworks:** AngularJS, ReactJS, Flask

**Operating Systems:** Windows, Linux, MacOS

## PROJECTS:

### Smart Attendance Management System

Made an automatic attendance management system based on face recognition using the CNN (Convolution Neural Network) model. ([Link](#))

### Smart Mirror

Developed prototype of a Smart Mirror with additional functions such as face recognition-based login and speech recognition for giving the commands. ([Link](#))

### Product Info Crawler

Developed a web crawler using Scrapy framework to crawl product information from different e-commerce websites. ([Link](#))

### Ultimate Maze

Ultimate Maze is a game developed using UNITY 3D which involves solving a maze. ([Link](#))

## KEY ACHIEVEMENTS / AWARDS:

- Received Adobe Print Rising Star Award and Spot award twice for my contributions in multiple print products.
- Won first prize in C++ Bootcamp organized at Adobe.
- Department Rank 2 for Bachelor of Technology at IIT Roorkee.
- Received Amul Vidhya Shree award in class 10<sup>th</sup>.

## EXTRA-CURRICULAR:

### Positions of Responsibility

- Web Developer & Mentor at ASME IIT Roorkee Chapter. (Jan 2015 – July 2017)
- Project Mentor, Electronics Section, IIT Roorkee (Oct 2016 – Mar 2017)

### Participations / Volunteering

- Volunteered for Adobe Project Smile Community League. Planned and organized multiple sport activities for NGO Kids.
- Participated in Adobe Cyclothon 2020, paddled 62 KM in 3 Hrs
- Participated in Adobe Smile Run-a-thon 2020, completed 5 Km run in 30 Minutes.